



HIGH SCHOOL ACADEMIC GUIDE & COURSE DESCRIPTIONS 2013-2014

The mission of the Tuscaloosa City Board of Education is to create and support a culture of high expectations for all students to achieve personal, academic, and career excellence.

Course Catalog 2013-2014
Tuscaloosa City School System

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Board Meetings: The Tuscaloosa City Board of Education meets regularly on the fourth Tuesday of each month at 6:00 p.m. at the Central Office located at 1210 21st Avenue, Tuscaloosa, Alabama 35401.

Website: Visit the Tuscaloosa City Schools at www.tusc.k12.al.us or www.tuscaloosacityschools.com for current information of interest.

Equal Education and Employment Opportunity Statement: It is the policy of the Tuscaloosa City Board of Education that no person in the school system shall, on the basis of race, color, creed, religion, sex, age, national origin, or disability be denied employment, be excluded from participation in, be denied the benefits of, or be subjected to discrimination in any program or activity as identified and defined by Section 504 of *The Rehabilitation Act of 1973* (P.L. 93-112) and *The Americans with Disabilities Act of 1990*. For more information, contact:

Mrs. Vickie Brown, 504 Coordinator.....	(205) 759-3523
Dr. Mike Daria, Sexual Harassment Officer.....	(205) 759-3523
Ms. Billie Kay Wingfield, Title IX Coordinator, Gender Equity.....	(205) 759-3677

Questions from parents and students are always welcome. Contact your school principal for answers to questions regarding concerns at the local school level.

INFORMATION FOR STUDENTS & PARENTS

It is the belief of the Tuscaloosa City School System that all students desire and deserve to become productive, successful participants in the world of the 21st century. Because each student is valuable and important to our future, the educational success of each student is the focus of every effort of the Tuscaloosa City School System.

Curriculum offerings in the Tuscaloosa City School System are designed to meet standards and guidelines established by the Alabama State Department of Education. Curriculum planning and student placement decisions reflect policies adopted by the Tuscaloosa City Board of Education. Parents are encouraged to consult the current Student/Parent Information Guide, school counselors, administrators, and teachers for additional information.

The courses offered by the Tuscaloosa City Schools are aligned with and based upon the Alabama State Courses of Study. Course offerings are designed to allow each student the opportunity to achieve his or her individual academic and career/technical goals. The availability of courses will depend on a sufficient number of students enrolling in accordance with state guidelines. The course catalog is designed to comply fully with the requirements of Title IX of the Educational Amendments of 1972 and local board of education policy. Local board policy states, in part, that "It is the policy of the Tuscaloosa City Board of Education that no student shall be excluded from participation in, be denied the benefits of, or subjected to discrimination in any program or activity, on the basis of sex, race, age, religion, belief, national origin, disability, or ethnic group."

If complaints and charges of discrimination cannot be resolved through the normal channels of the student grievance procedure, one may file such complaints, in writing, with the Coordinator of Title IX, Title VI, or Section 504 activities at the Central Office of the Tuscaloosa City Schools, P.O. Box 038991, Tuscaloosa, Alabama 35403 (phone 759-3700). A copy of the grievance procedure is available at the Central Office.

General Information

High school class schedules are based on a seven-period day with an additional 36-minute period for enrichment or intervention opportunities. Incoming ninth, tenth and eleventh graders are required to take one of each four academic core courses (English, math, science, and social studies) each year. For twelfth graders, counselors will provide guidance for course selections based on the number of required core credits that have already been obtained to fulfill graduation requirements. All students will work with counselors or other local school personnel to select courses to earn the required number of Carnegie units (credits) for the chosen diploma and/or endorsement.

Student Placement

Various components will be analyzed to determine student placement in courses. EXPLORE and PLAN scores are valid predictors to determine student placement in regular versus honors courses. Other test scores and averages will be examined, along with the student career interest inventory to determine student placement and course sequence to ensure the student has a 4-year plan for success based on personal interests and college and career plans. Teacher recommendations, parent/guardian options, and student performance standards will also be taken into consideration when determining student placement in the core content areas and electives as indicated in the course catalog. Parents or students having questions about the placement process or placement recommendations that are provided on the 4-year plan should contact the counselor for clarification. If there are still concerns following counselor clarification, a meeting should be arranged for the Central Office Curriculum Team 4-year planning partner and local school counselor.

Course Selection Forms and 4-Year Plans

Central Office Curriculum Team Members, and counselors will meet individually with students to advise about course offerings, prerequisites, and placement based on assessment scores and career interests. A 4-year plan will be developed and/or revised through the advisement process and sent home. This plan will be used to advise ~~register~~ the student for 2013-2014 courses in conjunction with the course selection form. Parents will be provided with a place to either sign the form agreeing to

suggested courses, “opt out” of a course and provide a rationale, or request a conference with the local school in regards to suggested courses. When students and/or parents do not return form signed, school personnel will attempt to contact the parents and then finalize for scheduling.

Prerequisites

Prerequisites are listed as indicators of the recommended foundation of learning, grade level, and/or achievement standard needed to be successful in a particular course. Prerequisites provide guidance for teachers, parents, counselors, and students. They provide additional information to help plan students’ successful progress through the variety of middle and high school programs offered by the Tuscaloosa City School.

Course Schedules

Each high school student selects seven (7) courses and alternate choices for the upcoming academic year. Student schedules for specific courses, teachers, and semesters are assigned by computer. Some high school courses may be offered only during a specific semester– fall or spring. Schools attempt to balance academic units and elective units each semester.

Every effort is made to schedule each student into courses that reflect his/her first choice. Course availability is affected by many factors: student demand, school enrollment, personnel availability, and funding constraints.

Dates for early schedule pick-up will be announced in the local media. To obtain an early schedule, the student must pay all fees required for courses selected.

Schedule Changes

No fees will be charged for any schedule change. Schedule changes are not encouraged after the fifth class day of a semester. Schedule changes will only be permitted for graduation requirements or diploma options (if applicable) and must be approved by administration. Students will not be allowed to request schedule changes for minor issues (teacher preference, etc.).

Fees

No fees shall be charged for courses required for graduation. In courses not required for graduation, reasonable fees will be set for courses requiring laboratory and shop materials and equipment, provided, however, that such **fees shall be waived for students who cannot afford to pay the fee.** (Code of Alabama § 16-13-13)

Fees for courses not required for graduation must be paid at the time of schedule pick-up. Schools may allow pre-payment or payment of a deposit on fees when schedule forms are returned during registration or before the end of school for the current year. **Please contact the school principal about fee waivers.**

Valedictorian and Salutatorian

There will be one valedictorian and one salutatorian for each high school. To be eligible for consideration as valedictorian or salutatorian, a student must have been enrolled in the Tuscaloosa City Schools for one calendar year prior to graduation. To be eligible for valedictorian or salutatorian a student must be a candidate for the Honors, AP, or IB diplomas. Grade point average calculations will be determined for grades earned in grades 9-12, including the second term of the senior year. Calculations will be carried to the fourth decimal place to determine the highest grade point average (valedictorian) and second highest grade point average (salutatorian). All students with a grade point average of 4.0 and higher who are pursuing IB, AP or Honors diploma will be recognized as honor graduates.

Graduation Ceremony

Diplomas will be awarded to students who earn the required Carnegie units (credits) for graduation and pass all sections of the Alabama High School Graduation Exam (seniors only for 2013-2014) as required by the diploma option chosen. All requirements must be met for participation in the graduation ceremony. Requirements are specified in this document and the Tuscaloosa City School System Student/Parent Information Guide.

GRADUATION REQUIREMENTS & DIPLOMAS

Online Experience and “Career Preparedness” Course Requirement

Beginning with the ninth grade class of 2009-2010, the Alabama State Board of Education has mandated implementation of an “online experience,” as a requirement for the high school diploma. The online experience is defined as “a structured-learning environment that utilizes technology—consistently and regularly—with Intranet/Internet-based tools and resources as the delivery method for instruction, research, assessment, and communication.”

The student may obtain online credit by:

1. Taking an online course,
2. Participating in a teacher-led online learning experience led/managed through a virtual environment or through blended instruction which balances traditional teacher instruction and appropriately designed online experiences as outlined in the “High School Distance Learning: Online/Technology Enhanced Course or Experience Guidance,” or
3. Participating in online experiences incorporated into required courses for the Alabama High School Diploma.

Beginning in 2013-2014, all students will be required to take the Career Preparedness course, which will incorporate three components: career development and academic planning, computer skill application, and financial literacy knowledge. This course is designed to help prepare all students for college and career readiness and is also designed to meet the required 20-hour online experience.

Promotion/Grade Classification

Based on state requirements and the Tuscaloosa City Schools Board approval in the fall of 2012, students must earn a minimum of 24 credits (Carnegie units) to graduate with a high school diploma. For reclassification status for promotion and graduation, the guidelines are as follows:

1. To be a tenth grader (sophomore), a student must have earned 6 credits.
2. To be an eleventh grader (junior), a student must have earned 12 credits.
3. To be a twelfth grader (senior), a student must have earned 18 credits.
4. To graduate, a student must have earned a minimum of 24 credits.

Credits to fulfill graduation requirements must be earned in grades 9-12 (with the current exception of Algebra I, Computer Applications, and Foreign Language (Level I) in eighth grade). Colleges, universities, and post-secondary training schools have varying entrance requirements. Students will receive individual and group advisement on course selection based on various criteria and assessments. Additionally, students are encouraged to consult local school personnel and post-secondary institutions to determine best selections. Logical and sequential progression through courses is recommended to provide students with the best opportunities for academic success. Students are encouraged to enroll in courses that will challenge them at the highest level. Through the 4-year planning process, students who have EXPLORE and PLAN scores that indicate they have the skills needed to take Honors and/or AP courses will be placed in those courses and will require a parent/guardian “opt out” request and/or rationale to change the students’ placement.

2013-2014 Alabama High School Diploma

Beginning with the ninth grade class of 2013-2014, the Alabama High School Diploma requires 24 credits to graduate. This diploma differs from past diplomas in that there is only one approach to the Alabama High School Diploma, which removes the need for endorsements or the Alabama Occupational Diploma (AOD). The focus will be on coursework taken that necessitates a clearly articulated and individualized 4-year high school plan built for each student based on the results of EXPLORE academic and career interest assessment, middle school coursework, and the Kuder career assessment inventory. All students will be required to complete and annually update a 4-year plan in Kuder.

English	4 credits
English 9, 10, 11, and 12 or any AP/IB or postsecondary equivalent option of these courses	
Mathematics	4 credits
Algebra I, Geometry, and Algebra II with Trigonometry or Algebra II, or their equivalent. Additional courses to complete the four credits in mathematics must be chosen from the <i>Alabama Course of Study: Mathematics</i> or CTE/AP/IB equivalent courses.	
Science	4 credits
Biology and a physical science (Physical Science or Chemistry) The third and fourth science credits may be used to meet both the science and CTE course requirement and must be chosen from the <i>Alabama Course of Study: Science</i> or CTE/AP/IB equivalent courses.	
Social Studies	4 credits
World History, U.S. History X 2, and Government/Economics or AP/IB equivalent courses.	
Physical Education	1 credit
LIFE (Personal Fitness) One JROTC credit may be used to meet this requirement	
Health Education	0.5 credits
<i>Alabama Course of Study: Health Education</i>	
Career Preparedness	1 credit
Career Preparedness Course (Career and Academic Planning, Computer Applications, Financial Literacy)	
CTE and/or Foreign Language and/or Art Education	3 credits
Students choosing CTE, Arts Education, and/or Foreign Language are encouraged to complete two courses in sequence	
Electives	2.5 credits
Total Credits Required for Graduation	24

Alabama High School Diploma Equivalent/Substitute Courses

Areas of Study	Requirements & Equivalent Courses	Credits
English and Language Arts		4
English 9,10,11 and 12 or any AP (grades 11 &12) IB postsecondary equivalent courses <u>AP Courses:</u> AP English Language and Composition, AP English Literature and Composition <u>IB Courses:</u> International Baccalaureate courses may only be offered through an approved IB Diploma Programme. Course choices include any subject from IB's <i>Group 1 Language A1: Language A1: Language A1 HL</i>		
Areas of Study	Requirements & Equivalent Courses	Credits
Mathematics		4
Algebra I, Geometry, and Algebra II with Trig or Algebra II or CTE/IB/postsecondary equivalent courses Additional course(s) to complete the four credits in mathematics must be chosen from the Alabama Course of Study Mathematics or CTE/AP/IB postsecondary equivalent courses. <u>AP Courses:</u> AP Calculus AB, AP Calculus BC, AP Statistics <u>IB Courses:</u> International Baccalaureate courses may only be offered through an approved IB Diploma Programme. Course choices include any subject from IB's <i>Group 5 Mathematics and Computer Science:</i> Mathematic Studies SL, Mathematics Studies HL, Mathematic Methods SL, Further Mathematic Studies SL. SDE Approved Courses		
Areas of Study	Requirements & Equivalent Courses	Credits
Science		4
Biology and a physical science The third and fourth science credits may be used to meet both the science and CTE requirement and must be chosen from the Alabama Course of Study: Science or CTE/AP/IB/postsecondary equivalent courses. "A physical science" refers to Physical Science, Chemistry, or Physics <u>AP Courses:</u> AP Biology, AP Chemistry, AP Environmental Science, AP Physics B, AP Physics C: Electricity and Magnetism, AP		

Physics C: Mechanics <u>IB Courses:</u> International Baccalaureate courses may only be offered through an approved IB Diploma Programme. Course choices include any subject from IB's <i>Group 4: Experimental Sciences</i> : Biology SL, Biology HL, Chemistry HL, Chemistry SL, Design Technology HL, Design Technology SL, Physics HL, Environmental Systems and Societies SL. SDE Approved Courses		
Areas of Study	Requirements & Equivalent Courses	Credits
Social Studies		4
World History, U.S. History x 2, and Government/Economics or AP/IB/postsecondary equivalent courses <u>AP Courses:</u> AP United States History, AP World History, AP European History, AP Comparative Government & Politics, AP United States Government & Politics, AP Macroeconomics, AP Microeconomics, AP Human Geography, AP Psychology <u>IB Courses:</u> International Baccalaureate courses may only be offered through an approved IB Diploma Programme. Course choices include any subject from IB's <i>Group 3 Individuals and Societies</i> : History of the Americas I SL, History of the Americas 1 HL, History of the Americas II SL, History of the Americas II HL, World History, European History, Islamic History, Comparative Government and Politics SL, Comparative Government and Politics HL, Economics SL, Economics HL, Human and Physical and Cultural Anthropology SL, Social and Cultural Anthropology HL, Global Studies SL, Global Studies HL. SDE Approved Courses		
Areas of Study	Requirements & Equivalent Courses	Credits
Physical Education		1
LIFE (Personal Fitness) One JROTC or other physical activity-based courses may be used to meet this requirement.		
Health Education		0.5
<i>Alabama Course of Study:</i> Health Education. Foundations of Health Science		
Career Preparedness		1
Career Preparedness Course Career Academic Planning, Computer Applications, Financial Literacy		

CTE and/or Foreign Language and/or Arts Education	3
Students choosing CTE, Arts Education, and/or Foreign Language are encouraged to complete two courses in sequence. <u>Arts Education AP Courses</u> <u>Arts Education IB Courses</u> <u>Foreign Language AP Courses</u> <u>Foreign Language IB Courses</u>	
Electives	2.5
Code of Alabama, 1975, regulations require LEAs to offer electives.	
Total Credits Required for Graduation	24

New Diploma Frequently Asked Questions:

- When will the new diploma be implemented? This will apply to all students beginning with the ninth grade class of 2013-2014.
- Will this diploma replace all variations of the diploma as in the advanced diploma? Yes, local education agencies may add endorsements.
- What is the purpose for making this change? The purpose is to allow more flexibility for students in pursuing their interests. There are many different courses students may take with this diploma; everyone will not take the same courses just because there is one diploma.
- What are the CTE equivalent courses that can be used to satisfy math, science, Computer Applications, or CTE requirements?
 - Aquascience – Aquaculture Science
 - Chemistry – Chemistry of Food
 - Environmental Science – Environmental Management
 - Forensic Science – Forensic and Criminal Investigations
 - Genetics – Introduction to Biotechnology
 - Human Anatomy and Physiology – Human Body Structures and Functions
 - Botany – Plant Biotechnology
- Can a CTE course be used to meet the math requirement and also be used to

meet the CTE/Foreign Language/Arts Education requirement? Yes, it could be used to meet the requirement, but a student cannot earn two credits for the same course. So, the student would have the opportunity to earn an additional credit. Also, the CTE class must be an approved equivalent course for math.

6. Will this be the last year of Alabama Occupational Diploma (AOD) or will current ninth, tenth, and eleventh special education students that are currently working toward an AOD remain on AOD until they graduate? Students currently working toward an AOD who will be tenth and eleventh graders next year may receive a regular diploma if they earn course credit for the AOD. Ninth graders in 2013-14 will be the first class to work towards the new diploma.

Alabama Diploma Options & Requirements

COHORT YEAR - 2014 “Rising Seniors”

Alabama High School Diploma with Advanced Academic Endorsement *With or without Career Tech Endorsement *ALL students must successfully complete Algebra II with Trigonometry for advanced endorsement
First Choice Option Students must “opt” out of Advanced Diploma
Alabama High School Diploma With or without Career Tech Endorsement
Pass all sections of AHSGE Math, reading, language, biology, social studies
Alabama High School Diploma with Credit-Based Endorsement Must pass AHSGE reading, math, and one other subtest
Alabama Occupational Diploma (AOD) Career Tech Endorsement 3 courses in a sequence Advanced CTE = 3 courses in a sequence plus Algebra II with Trigonometry
24 TOTAL CREDITS

COHORT YEAR - 2015 “Rising Juniors”

Alabama High School Diploma with Advanced Academic Endorsement *With or without Career Tech Endorsement *ALL students must successfully complete Algebra II with Trigonometry for advanced endorsement
First Choice Option Students must “opt” out of Advanced Diploma
Alabama High School Diploma with Advanced Academic Endorsement With or without Career Tech Endorsement
End-of-Course Tests Students will NOT take and/or be required to pass the AHSGE
Career Tech Endorsement 3 courses in a sequence Advanced CTE = 3 courses in a sequence plus Algebra II with Trigonometry
24 TOTAL CREDITS

COHORT YEAR – 2016 “Rising Sophomores”

ALL Students (new requirement) Must successfully complete Algebra II or Algebra II with Trigonometry
Alabama High School Diploma with Advanced Academic Endorsement *With or without Career Tech Endorsement *ALL students must successfully complete Algebra II with Trigonometry for advanced endorsement
First Choice Option Students must “opt” out of Advanced Diploma
Alabama High School Diploma With or without Career Tech Endorsement
End-of-Course Tests
Career Tech Endorsement 3 courses in a sequence Advanced CTE = 3 courses in a sequence plus Algebra II with Trigonometry
24 TOTAL CREDITS

COHORT YEAR – 2014 “Rising Freshman”

English	4 credits
English 9, 10, 11, and 12 or any AP/IB or postsecondary equivalent option of these courses	
Mathematics	4 credits
Algebra I, Geometry, and Algebra II with Trigonometry or Algebra II, or their equivalent. Additional courses to complete the four credits in mathematics must be chosen from the <i>Alabama Course of Study: Mathematics</i> or CTE/AP/IB equivalent courses.	
Science	4 credits
Biology and a physical science (Physical Science or Chemistry) The third and fourth science credits may be used to meet both the science and CTE course requirement and must be chosen from the <i>Alabama Course of Study: Science</i> or CTE/AP/IB equivalent courses.	
Social Studies	4 credits
World History, U.S. History X 2, and Government/Economics or AP/IB equivalent courses.	
Physical Education	1 credit
LIFE (Personal Fitness) One JROTC credit may be used to meet this requirement	
Health Education	0.5 credits
<i>Alabama Course of Study: Health Education</i>	
Career Preparedness	1 credit
Career Preparedness Course (Career and Academic Planning, Computer Applications, Financial Literacy)	
CTE and/or Foreign Language and/or Art Education	3 credits
Students choosing CTE, Arts Education, and/or Foreign Language are encouraged to complete two courses in sequence	
Elective	2.5 credits
Total Credits Required for Graduation	
24	

Additional Tuscaloosa City Schools Diploma Options & Requirements

2013-2014 Seniors, Juniors, & Sophomores

Honors Diploma Advanced placement courses may substitute for courses listed.	
English Four credits to include the equivalent of Honors English 9,10,11,12	4 units
Mathematics Four credits to include the equivalent of	4 units

Algebra I, Geometry, Algebra II w/Trig, and 1 additional advanced math course	
Science Four credits to include the equivalent of Honors Biology and 3 credits of advanced sciences to include 1 unit of physical science	4 units
Social Studies Four credits to include the equivalent of Honors World History/Geography from 1500, 3 advanced level social studies units to include US History to 1877, US History from 1877, Government/Economics	4 units
Foreign Language Must be same foreign language	2 units

Advanced Placement Diploma The AP Diploma requires an AP course in each academic core and an additional academic AP elective course.	
English Four credits to include the equivalent of Honors English 9,10,11,12 with 1 AP	4 units
Mathematics Four credits to include the equivalent of Algebra I, Geometry, Algebra II w/Trig, Precalculus and 1 AP course	4 units
Science Four credits to include the equivalent of Honors Biology and 3 additional advanced sciences to include 1 unit of physical science and 1 AP course	4 units
Social Studies Four credits to include the equivalent of Honors World History/Geography from 1500, 3 additional advanced social studies units to include US History to 1877, US History from 1877, Government/Economics and 1 AP course	4 units
Foreign Language Must be same foreign language	2 units

International Baccalaureate Central High School ONLY	
English Four credits to include the equivalent of Honors English 9,10, and IB English 11,12	4 units
Mathematics Four credits to include the equivalent of Algebra I, Geometry, Algebra II w/Trig, Precalculus and AP Calculus or AP Statistics	4 units
Science Four credits to include the equivalent of Honors Biology Chemistry, IB Chemistry or Physics, IB Biology or AP Physics	4 units
Social Studies Four credits to include the equivalent of Honors World History/Geography from 1500, History of Americas I, IB History of the Americas 2, IB 20 th Century World Studies	4 units
Foreign Language Must be same foreign language	2 units

2013-2014 Freshman Class
Alabama High School Diploma
With Academic Distinction

*Successfully complete a minimum of 2 AP/IB or postsecondary (dual enrollment/dual credit) equivalent options *Successfully complete a minimum of 2 Foreign Language courses in the same sequence *Maintain a minimum GPA of 3.0	
English	4 credits
English 9, 10, 11, and 12 or any Honors , AP/IB or postsecondary equivalent option of these courses	
Mathematics	4 credits
Algebra I, Geometry, and Algebra II with Trigonometry Additional course to complete the four credits in mathematics must be chosen from the <i>Alabama Course of Study: Mathematics</i> or CTE/AP/IB equivalent courses.	
Science	4 credits
Biology, Chemistry, and Physics The fourth science credit must be chosen from the <i>Alabama Course of Study: Science</i> or CTE/AP/IB equivalent courses.	
Social Studies	4 credits
World History, U.S. History X 2, and Government/Economics or Honors , AP/IB or equivalent courses	
Physical Education	1 credit
LIFE (Personal Fitness) One JROTC credit may be used to meet this requirement	
Health Education	0.5 credits
<i>Alabama Course of Study: Health Education</i>	
Career Preparedness	1 credit
Career Preparedness Course (Career and Academic Planning, Computer Applications, Financial Literacy)	
CTE and/or Foreign Language and/or Art Education	3 credits
Students choosing CTE, Arts Education, and/or Foreign Language are encouraged to complete two courses in sequence	
Electives	2.5 credits
End-of-Course Tests	
24 TOTAL CREDITS	

Graduation Certificate

Special education students whose individualized education plans (IEPs) identify the graduation certificate as the appropriate exit credential may receive the graduation certificate. Students whose IEP goals for grades 9-12 are met may participate in graduation ceremonies and receive the graduation certificate.

ENGLISH/LANGUAGE ARTS

Passing each grade level in English is a prerequisite for enrolling in the next course.

200005 English 9

Fee: none 2 semesters, 1 credit
Prerequisite: none

This freshman English course provides rigorous instruction in developing reading, writing, listening, and speaking skills. Using the Common Core foundation, the course expands on traditional concepts and applies them to modern, 21st Century demands. The course will include an overview of the conventions of Standard English grammar and usage. The study of literature will require students to read and respond to literature and literary nonfiction, with emphasis on world literature, of increasing sophistication to gain literary and cultural knowledge. Students will write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence; will write informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content; will write narratives using effective techniques; and will conduct short and sustained research projects. This course fulfills the graduation requirement of one credit of English.

200006 Honors English 9

Fee: none 2 semesters, 1 credit
Prerequisites: EXPLORE score
of 13 or higher, 85 or higher in Honors
English 8, or student performance
and/or teacher/counselor
recommendation.

Using the Common Core foundation, Pre AP teaching strategies, and Laying the Foundation AP resources and materials, the course expands on traditional concepts and applies them to modern, 21st Century demands in an accelerated pace of instruction. This freshman level English course is designed for students who plan to take advanced courses. The course provides rigorous instruction in developing reading, writing, listening, and speaking skills. The course will incorporate an overview of the conventions of Standard English grammar and

usage through literature and writing. The study of literature will require students to read and respond to a substantial amount of complex fiction and nonfiction texts with a focus on world literature. Students will write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence. Students will also write informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content; will write narratives using effective techniques; and will conduct short and sustained research projects. This course fulfills the graduation requirement of one credit of English.

200009 English 10

Fee: none 2 semesters, 1 credit
Prerequisite: English 9 or
equivalent

This sophomore level English course provides rigorous instruction in developing reading, writing, listening, and speaking skills. Using the Common Core foundation, the course expands on traditional concepts and applies them to modern, 21st Century demands. The course will include an overview of the conventions of Standard English grammar and usage. The study of literature will require students to read and respond to literature and literary nonfiction, including early American literature, of increasing sophistication to gain literary and cultural knowledge. Students will evaluate intricate arguments and develop the capacity to surmount the challenges posed by complex texts. Students will write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence. Students will also write informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content; will write narratives using effective techniques; and will conduct short and sustained research projects. This course fulfills the graduation requirement of one credit of English.

200010 Honors English 10

Fee: none 2 semesters, 1 credit

Prerequisites: EXPLORE score of 13 or higher, 85 or higher in Honors English 9, or student performance and/or teacher/counselor recommendation.

Using the Common Core foundation, Pre AP teaching strategies, and Laying the Foundation AP resources and materials, the course expands on traditional concepts and applies them to modern, 21st Century demands in an accelerated pace of instruction. This sophomore level English course is designed for students who plan to take advanced courses. The course provides rigorous instruction in developing reading, writing, listening, and speaking skills. The course will incorporate an overview of the conventions of Standard English grammar and usage through the study of literature and writing. The study of literature will require students to read and respond to literature and literary nonfiction, including early American literature, of increasing sophistication to gain literary and cultural knowledge. Students will evaluate intricate arguments and develop the capacity to surmount the challenges posed by complex texts. Students will write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence. Students will also write informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content; will write narratives using effective techniques; and will conduct short and sustained research projects. This course fulfills the graduation requirement of one credit of English.

200013 English 11

Fee: none 2 semesters, 1 credit

Prerequisite: English 10 or the equivalent

This junior level English course provides rigorous instruction in Common Core standards in reading, writing, listening, and speaking skills. This course combines a study of modern American literature with a study of grammar and composition. The students survey outstanding American authors and literature representing these literary types: short story, novel, poetry, drama, and essay. The student will write argumentative, informative, and narrative texts,

and will conduct short as well as more sustained research projects. This course fulfills the graduation requirement of one credit of English.

200014 Honors English 11

Fee: none 2 semesters, 1 credit

Prerequisites: PLAN score of 17, Honors English 10, and/or teacher/counselor recommendation

Using the Common Core foundation, AP teaching strategies, and Laying the Foundation AP resources and materials, this junior level English course is designed for students who plan to take advanced courses. The course provides accelerated, rigorous instruction in reading, writing, listening, and speaking skills. This course combines a study of modern American literature with a study of grammar and composition. The students survey outstanding American authors and literature representing these literary types: short story, novel, poetry, drama, and essay. The student will write argumentative, informative, and narrative texts, and will conduct short as well as more sustained research projects. Students are expected to have achieved a mastery of mechanics (punctuation, spelling, agreement) that facilitate extensive writing and revision. This course fulfills the graduation requirement of one credit of English.

200016 Advanced Placement (AP) Language and Composition

Fee: none 2 semesters, 1 credit

Prerequisite: ACT score of 22 or higher, Honors English 10, English 10, Honors English 11, IB English 11, or teacher/counselor recommendation.

Note: Although this class is recommended for eleventh grade, this class can be taken in either the eleventh or twelfth grade.

The course content of Advanced Placement (AP) Language and Composition is guided by the College Board's The Advanced Placement Course of Study. The course is designed for the advanced English student who wants to earn college credit or advanced placement in college courses based upon the results of the AP examination. The AP English Language and Composition course is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes based on

State Course of Standards. Through writing and reading in this course, students should become aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effective writing. American and British literature are a part of the course content in satisfaction of the Alabama Courses of Study for the literature requirements in both grades 11 and 12. Students will receive a 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

200021 Language A1, SL, IB (International Baccalaureate) English 11

Fee: none 2 semesters, 1 credit

Prerequisites: English 10 or Honors English 10 and admission to the IB Programme (Offered at Central High School)

IB English 11 focuses on expository writing through a study of sentence, paragraph, and essay structures. Students study American and world literature as a basis for literary analysis. Works of literature from the IB Prescribed Book List and the IB World Literature List will be included in the course content. Reading assignments outside of class will also be required.

200017 English 12

Fee: none 2 semesters, 1 credit

Prerequisite: English 11 or equivalent

English 12 is a senior level course that provides rigorous instruction in Common Core standards in reading, writing, listening, and speaking skills and integrates a historical survey of British literature with a study of grammar and composition. The students will survey major authors, works, and literary periods with a focus on British literature. Students will engage in critical listening, speaking, reading, and writing activities designed to integrate the strands of the language arts and further develop their thinking and problem-solving abilities. The student will write argumentative, informative, and narrative texts, and will conduct short as well as more sustained research projects. This course fulfills the graduation requirement of one credit of English.

200018 Honors English 12

Fee: none 2 semesters, 1 credit

Prerequisite: ACT score of 18 or higher, Honors English 11, IB English 11, or teacher/counselor recommendation

Honors English 12 is senior level advanced course designed for the student who aspires to post-secondary college. This course provides accelerated, rigorous instruction in reading, writing, listening, and speaking skills and integrates a historical survey of literature with a study of grammar and composition. The students will survey major authors, works, and literary periods with a focus on American and British literature. Students will write argumentative, informative, and narrative texts, and will conduct short as well as more sustained research projects. This course fulfills the graduation requirement of one credit of English.

200020 Advanced Placement (AP) Literature and Composition

Fee: none 2 semesters, 1 credit

Prerequisite: ACT score of 22 or higher, Honors English 10, Honors English 11, IB English 11, and/or teacher/counselor recommendation.

Note: Although this class is recommended for eleventh grade, this class can be taken in either the eleventh or twelfth grade.

The course content of AP Literature and Composition is guided by the College Board's The Advanced Placement Course of Study. The course is designed for the advanced English student who wants to earn college credit or advanced placement in college courses based upon the results of the AP examination. The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative literature based on the State Course of Studies Standards. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. American and British literature are a part of the course content in satisfaction of the Alabama Courses of Study literature requirements for grades 11 and 12. Literary studies include classical and contemporary works from Europe,

Great Britain and the United States. Students read extensively for written and verbal analysis. The workload in this class requires students to work at an accelerated pace. Students will receive 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

200022 Language A1, HL, IB (International Baccalaureate) English 12

Fee: none 2 semesters, 1 credit
Prerequisites: IB English 11
(Offered at Central High School)

IB English 12 continues the study of expository writing through a study of paragraph and essay structures and literary selections. Students will study British and World literature as a basis for literary analysis. Works of literature from the IB Prescribed Book List and the IB World Literature List are included in the content of this course. This course prepares students to take the IB examination in May.

700005 English Essentials (grade 9)

Fee: none 2 semesters, 1 credit each
Prerequisite: IEP team decision

This ninth grade course provides students with a practical knowledge of language and literature. The course also includes the refinement of reading, writing, editing, and speaking skills. It is designed to prepare students for postsecondary education and employment.

700006 English Essentials (grade 10)

Fee: none 2 semesters, 1 credit each
Prerequisite: IEP team decision

This tenth grade course provides students with the practical knowledge of language and literature. The course also includes the refinement of reading, writing, editing, and speaking skills. It is designed to prepare students for postsecondary education and employment.

700007 English Essentials (grade 11)

Fee: none 2 semesters, 1 credit each
Prerequisite: IEP team decision

This eleventh grade course provides students with practical knowledge of language and literature. The course also includes the refinement of reading, writing, editing, and speaking skills. It is

designed to prepare students for postsecondary education and employment.

700008 English Essentials (grade 12)

Fee: none 2 semesters, 1 credit each
Prerequisite: IEP team decision

This twelfth grade course provides students with a practical knowledge of language and literature. The course also includes the refinement of reading, writing, editing, and speaking skills. It is designed to prepare students for postsecondary education and employment.

200043 Speech

Fee: none 2 semesters, 1 credit
Prerequisite: none

This elective course is designed to enhance students' oral communication skills. Students will participate in group discussions, role-play job interviews, do various types of speeches, study debate, and be introduced to drama. The computer will be used extensively to do research for speeches to inform, persuade and to view sample speeches. Presentation software will also be used.

200051 Journalism 1

Fee: \$25 2 semesters, 1 credit
Application required

In this elective course, students learn to write like a journalist. They will learn to write news stories, feature stories, sports stories, columns, editorials, and reviews. Students will learn reporting, and editing skills. In addition, photography and newspaper design will be studied. Students will have an opportunity to draw cartoons and graphic art. Students will sell ads and use a computer to write, edit and design pages for the school newspaper. Students will learn to safely use the Internet to blog, network, post photographs and video online. All course work is geared toward producing the student print and online newspaper.

200052 Journalism 2

Fee: \$25 2 semesters, 1 credit
Prerequisite: application

This elective course is designed for students who have some knowledge of and an interest in newspaper writing and design. In this course, students have opportunities to enhance their reporting, writing, and editing skills. They will

sell ads, take photographs, and use the computer to design ads, information graphics and newspaper pages. Students will have opportunities to draw cartoons and graphic art. Students will learn to safely use the Internet to blog, network, post photographs and video online. All course work is geared toward producing the student print and online newspaper.

200061 Reading Intervention

Fee: None 2 semesters, No credit
Prerequisite: Score of 2 or below on ARMT+,
Explore or Plan scores, counselor/teacher
recommendation, or other scores as deemed
appropriate in 4-year plan

Note: Students in grades 9, 10, 11, or 12 may
be enrolled in this course.

This elective course is designed to help students increase reading comprehension and basic phonemic awareness skills using high-interest, low-level texts while incorporating online assessments and practices. Scripted reading programs may be used in this course, along with other strategies to help students build on the basic foundation skills.

MATHEMATICS

Example Course Sequences

*Students who successfully complete
Algebra I in grade 8*

OPTION I	
9 th	Geometry/Honors Geometry
10 th	Algebra II with Trigonometry
11 th	Analytical Math
12 th	Precalculus
OPTION II	
9 th	Geometry/Honors Geometry
10 th	Algebra II with Trigonometry
11 th	Precalculus
12 th	Analytical Math
OPTION III	
9 th	Geometry/Honors Geometry
10 th	Algebra II with Trigonometry
11 th	Precalculus
12 th	AP Math Course (Calculus AB or BC)
OPTION IV	
9 th	Geometry/Honors Geometry
10 th	Algebraic Connections
11 th	Algebra II with Trigonometry
12 th	Precalculus

OPTION V	
9 th	Geometry/Honors Geometry
10 th	Algebraic Connections
11 th	Algebra II with Trigonometry
12 th	Analytical Math
OPTION VI	
9 th	Geometry/Honors Geometry
10 th	Algebraic Connections
11 th	Algebra II with Trigonometry
12 th	Mathematical Investigations

Grade 9 – 12 Options

OPTION I	
9 th	Algebra IA
10 th	Algebra IB
11 th	Geometry/Honors Geometry
12 th	Algebra II or Algebra II with Trigonometry
OPTION II	
9 th	Algebra IA & IB (2 periods daily)
10 th	Geometry
11 th	Algebraic Connections
12 th	Algebra II or Algebra II with Trigonometry
OPTION III	
9 th	Algebra IA & Math Intervention (2 periods daily)
10 th	Algebra IB
11 th	Geometry
12 th	Algebra II or Algebra II with Trigonometry
OPTION IV	
9 th	Algebra I
10 th	Geometry/Honors Geometry
11 th	Algebraic Connections
12 th	Algebra II or Algebra II with Trigonometry
OPTION III	
9 th	Algebra I
10 th	Geometry/Honors Geometry
11 th	Algebra II with Trigonometry
12 th	Analytical Math
OPTION IV	
9 th	Algebra I
10 th	Geometry/Honors Geometry
11 th	Algebra II with Trigonometry
12 th	Mathematical Investigations
OPTION V	
9 th	Algebra I
10 th	Geometry/Honors Geometry
11 th	Algebra II with Trigonometry
12 th	PreCalculus

Note: It is required that students take at least one math course per academic year.

210005 Algebra I

Fee: none 2 semesters, 1 credit

Prerequisite: Math 8 or equivalent

The Algebra I course builds on foundational mathematics content learned by students in grades K – 8 by expanding mathematics understanding to provide students with a strong mathematics education. Content is designed to engage students in a variety of mathematical experiences that include the use of reasoning and problem-solving skills, which may be applied to life situations beyond the classroom setting. This course serves as the cornerstone for all high school mathematics courses; therefore, all subsequent mathematics courses require student mastery of the Algebra I content standards. With the adoption of the Common Core Standards, Algebra I will require students to mastery the following **Conceptual Categories (I)**, **Domains (a)**, and **Clusters(i)**:

I. Number and Quantity

a. The Real Number System

- i. *Extend the properties of exponents to rational numbers*
- ii. *Use properties of rational and irrational numbers*

b. Quantities

- i. *Reason quantitatively and use units to solve problems*

II. Algebra

a. Seeing Structure in Expressions

- i. *Interpret the structure of expressions*
- ii. *Write expressions in equivalent forms to solve problems*

b. Arithmetic with Polynomials and Rational Expressions

- i. *Perform arithmetic operations on polynomials*

c. Creating Equations

- i. *Create equations that describe numbers or relationships*

d. Reasoning with Equations and Inequalities

- i. *Understand solving equations as a process of reasoning and explain the reasoning*

- ii. *Solve equations and inequalities in one variable*

- iii. *Solve systems of equations*

- iv. *Represent and solve equations and inequalities graphically*

III. Functions

a. Interpreting Functions

- i. *Understand the concept of a function and use of function notation*
- ii. *Interpret functions that arise in application in terms of context*
- iii. *Analyze functions using different representations*

b. Building Functions

- i. *Build a function that models a relationship between two quantities*
- ii. *Build new functions from existing functions*

c. Linear, Quadratic, and Exponential Models

- i. *Construct and compare linear, quadratic, and exponential models and solve problems*
- ii. *Interpret expressions for functions in terms of the situation they model*

IV. Statistics and Probability

a. Interpreting Categorical and Quantitative Data

- i. *Summarize, represent, and interpret data on a single count or measurement variable*
- ii. *Summarize, represent, and interpret data on two categorical and quantitative variables*
- iii. *Interpret linear models*

b. Conditional Probability and the Rules of Probability

- i. *Understand independence and conditional probability and use them to interpret data*

210008 Algebra IA

Fee: none 2 semesters, 1 credit

Prerequisite: Math 8 or equivalent

Algebra IA is designed for students to begin the study of algebra at a slower pace. The course will cover the first half of the topics normally covered in the traditional Algebra I course. Each student will then be required to take Algebra IB in order to fulfill the complete credit. Students who have passed Algebra I in grade 8 and accepted course credit may not take this course for credit.

210009 Algebra IB

Fee: none 2 semesters, 1 credit

Prerequisite: Algebra IA

Algebra IB is required of all students taking Algebra IA and will cover the second half of the topics covered in an Algebra I course. The topics covered include irrational numbers, quadratic equations, ratio and proportion, linear equations and functions, systems of equations and statistics. Students who have passed Algebra I in grade 8 may not take this course for credit.

210010 Geometry

Fee: none 2 semesters, 1 credit

Prerequisite: Algebra I or Algebra IB

The Geometry course builds on Algebra I concepts and increases students' knowledge of shapes and their properties through geometry-based applications, many of which are observable in aspects of everyday life. This knowledge helps develop visual and spatial sense and strong reasoning skills. The Geometry course requires students to make conjectures and to use reasoning to validate or negate these conjectures. The use of proofs and constructions is a valuable tool that enhances reasoning skills and enables students to better understand more complex mathematical concepts. Technology should be used to enhance students' mathematical experience, not replace their reasoning abilities. Because of its importance, this Euclidean geometry course is required of all students receiving an Alabama High School Diploma.

210011 Honors Geometry

Fee: none 2 semesters, 1 credit

Prerequisite: Algebra I, EXPLORE score of 17 or higher, and/or teacher/counselor recommendation

Honors Geometry is designed for the students who excelled in Algebra I. This course covers the same topics as Geometry with a more in-depth, more rigorous, and challenging analysis of the major concepts and more emphasis on theory. Logical thinking is developed through concentration on direct and indirect proofs.

210015 Algebraic Connections

Fee: none 2 semesters, 1 credit

Prerequisite: Algebra I and Geometry

This course is designed for students who wish to increase their mathematical knowledge and skills prior to enrollment in the Algebra II course or the Algebra II with Trigonometry course. Algebraic Connections expands upon the concepts of Algebra I and Geometry, with an emphasis on application-based problems. This course provides opportunities to incorporate the use of technology through its emphasis on applying functions to make predictions and to calculate outcomes.

210016 Algebra II

Fee: none 2 semesters, 1 credit

Prerequisites: Algebra I and Geometry

Algebra II is a terminating course designed to extend students' algebraic knowledge and skills beyond Algebra I. Students are encouraged to solve problems using a variety of methods that promote the development of improved communication skills and foster a deeper understanding of mathematics. To help students appreciate the power of algebra, application-based problems are incorporated throughout the course. The use of appropriate technology is also encouraged for numerical and graphical investigations.

210017 Algebra II with Trigonometry

Fee: none 2 semesters, 1 credit

Prerequisites: Algebra I, Geometry, and PLAN score of 19 or higher (for students in grade 11 or 12 only)

Algebra II with Trigonometry is a course designed to extend students' knowledge of Algebra I with additional algebraic and trigonometric content. Mastery of the content standards for this course is necessary for student success in higher-level mathematics. The use of appropriate technology is encouraged for numerical and graphical investigations that enhance analytical comprehension.

210018 Discrete Mathematics

Fee: None 2 semesters, 1 credit

Prerequisite: Algebra I, Geometry and Algebra II with Trigonometry

Note: Discrete Mathematics is a course designed for students who have successfully completed the Algebra II with Trigonometry course and who choose not to continue mathematics study in the Precalculus or Analytical Mathematics courses.

This course is designed for students who have successfully completed Algebra II with Trigonometry and who choose to continue mathematics study in Precalculus or Analytical Mathematics courses. This course may be offered as an elective for students who have completed the four mathematics requirements for graduation. This course also expands upon topics of matrices, combinatorial reasoning, counting techniques, algorithms, sequences, series, and their applications. Students are expected to work in both individual and group settings to apply problem-solving strategies and to incorporate technological tools that extend beyond traditional instructional practices.

210019 Mathematical Investigations

Fee: None 2 semesters, 1 credit

Prerequisite: Algebra I, Geometry, and Algebra II with Trigonometry

This course is designed for students who have successfully completed Algebra II with Trigonometry and who choose not to continue mathematics study in Precalculus or Analytical Mathematics courses. This course may be offered as an elective for students who have completed the four mathematics requirements

for graduation. This course is also intended to extend students' knowledge of mathematical development. Beginning with ancient numeration systems, students explore relationships between mathematics and nature, music, art, and architecture as well as the contributions of well-known mathematicians. It extends the scope of prerequisite courses, integrating topics with an emphasis on application-based problem solving. The wide range of topics and applied problems may lend itself to organizing the content into thematic units.

210034 Analytical Mathematics

Fee: none 2 semesters, 1 credit

Prerequisite: Algebra I, Geometry, and Algebra II with Trigonometry

This course is designed for students who have successfully completed Algebra II with Trigonometry. It is considered to be parallel in rigor to Precalculus. This course provides a structured introduction to important areas of emphasis in most postsecondary studies that pursue a concentration in mathematics. Linear algebra, logic, vectors, and matrices are given more in-depth coverage than in previous courses. Application-based problem solving is an integral part of this course. To assist students with numerical and graphical analysis, the use of advanced technological tools is highly recommended. While this course may be taken either prior to or after Precalculus, it is recommended that students who are interested in postsecondary studies in engineering successfully complete the Precalculus course as well as an AP or IB Calculus course.

210020 Precalculus

Fee: none 2 semesters, 1 credit

Prerequisite: Algebra II with Trigonometry

This course is considered to be a prerequisite for success in calculus and college mathematics. Algebraic, graphical, numerical, and verbal analyses are incorporated during investigations of the Precalculus content standards. Parametric equations, polar relations, vector operations, conic sections, and limits are introduced. Content for this course also includes an expanded study of polynomial and rational functions, trigonometric functions, and logarithmic and exponential functions. Application-based problem solving is an integral part of the course.

210025 Calculus AB, AP (Advanced Placement)

Fee: none 2 semesters, 1 credit
Prerequisite: Precalculus

This course is designed for those students who need a strong background in mathematics. Topics to be included in the first semester are algebraic functions, analytical geometry, series and sequences, and limits. The first semester will include a study of differential calculus with emphasis upon theory and techniques of differentiation curve tracing, maxima and minima problems, and related rate problems. The second semester includes a study of transcendental functions and integration. Students are introduced to the concept of integration and some applied problems using integration such as area between curves, volumes, and length of arcs. The Advanced Placement Course of Study, published by the College Board, will be used as the guide for this course. A graphing calculator is required for this course. Students will receive 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

210026 Calculus BC, AP (Advanced Placement)

Fee: none 2 semesters, 1 credit
Prerequisite: Precalculus

This AP course is a continuation of Calculus AB and includes additional material that would be covered in a second semester college calculus course. Additional topics include infinite series, parametric equations, polar equations, and vectors. A graphing calculator is required for this course. Students will receive a 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

210027 Statistics, AP (Advanced Placement)

Fee: none 2 semesters, 1 credit
Prerequisite: Precalculus

This course is designed as an advanced mathematics course for students interested in pursuing a non-engineering curriculum in college. Topics to be included are: organizational techniques, required for mastery of descriptive statistics, measures of central tendency and dispersion, probability, both discrete and continuous probability distributions, confidence intervals, hypotheses tests, linear

correlation and regression analysis, as well as other nonparametric methods of data comparison. Additional assignments, AP practices and coaching sessions on weekends or evenings may also be required for preparation for the advanced placement Statistics exam. The goal of this course is success on the AP Statistics exam. Students will receive a 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

210028 Mathematics Studies, SL, IB (grade 11)

Fee: None 2 semesters, 1 credit
Prerequisite: Algebra II with Trigonometry

This is an IB mathematics course at the Standard Level which will provide students with a comprehensive and sound mathematical background in preparation for future studies in AP Calculus and AP Statistics. Students will complete their study of Precalculus and begin an introductory program in differential and integral calculus. Students will submit a portfolio of two assignments based on areas in the syllabus and involving the following activities: mathematical investigation and mathematical modeling. Students are required to write a research paper and may continue their mathematical research working on the IB Essays. This course requires a variety of IB assessments.

700011 Essential Mathematics II

Fee: none 2 semesters, 1 credit
Prerequisites: IEP team decision

Note: This course is not applicable for 2014-2015 and thereafter. Refer to course codes 700015-700019.

This course provides students with the opportunity to learn basic operations involving decimals, percents, laws of exponents, and consumer skills such as reconciling bank statements and computing pay rates.

700012 Algebraic Explorations I

Fee: none 2 semesters, 1 credit
Prerequisites: IEP team decision

Note: This course is not applicable for 2015-2016 and thereafter. Refer to course codes 700015-700019.

This course provides students with the opportunity to learn basic operations involving integers and numerical expressions, and consumer skills such as calculating taxes and measurement of surface areas.

700013 Algebraic Explorations II

Fee: none 2 semesters, 1 credit

Prerequisites: IEP team decision

Note: This course is not applicable for 2016-2017 and thereafter. Refer to course codes 700015-700019.

This course provides students with the opportunity to learn basic algebraic concepts including graphing and analyzing linear equations and consumer skills such as budgets, loans, credit purchases, and measurements.

700015 Algebraic Concepts

Fee: none 2 semesters, 1 credit

Prerequisites: IEP team decision

This course provides students with prerequisite algebra skills identified in general education math courses. The course includes essential concepts to prepare students for Algebraic Essentials A & B.

700016 Algebraic Essentials A

Fee: none 2 semesters, 1 credit

Prerequisites: IEP team decision

This course provides students with the foundational skills identified in the first half of general education Algebra I (or Algebra IA) course. The course includes essential concepts to equip students with the algebra necessary for employment and independent living.

700017 Algebraic Essentials B

Fee: none 2 semesters, 1 credit

Prerequisites: IEP team decision

This course provides students with foundational skills identified in the second half of the general education Algebra I (or Algebra I B) course. The course includes essential concepts to equip students with the algebra necessary for employment and independent living.

700018 Geometry Essentials A

Fee: none 2 semesters, 1 credit

Prerequisites: IEP team decision

This course provides students with the foundational skills identified in the general education Geometry course. The course includes essential concepts to equip students with the geometry skills necessary for employment and independent living.

700019 Geometry Essentials B

Fee: none 2 semesters, 1 credit

Prerequisites: IEP team decision

This course provides students with the foundational skills identified in the general education Geometry, Algebraic Connections, or Algebra II course. The course includes essential concepts to equip students with the geometry skills necessary for employment and independent living.

HISTORY, SOCIAL SCIENCE, & GOVERNMENT

230013 World History: 1500 to Present, Grade 9

Fee: none 2 semesters, 1 credit

Prerequisite: none

This course encompasses a study of world history from 1500 to the present. It builds on the knowledge and skills that students have acquired from their previous studies in history. Students study and analyze global issues and the impact they may have on society, politics, the economy, and the environment. Emphasis is placed on geographic impact, the development of civic knowledge/responsibilities, and emerging economic systems. This course fulfills the graduation requirement for one credit of social studies

230014 Honors World History: 1500 to Present, Grade 9

Fee: none 2 semesters, 1 credit

Prerequisite: Teacher recommendation

Students choosing to take this course at the honors level will cover more material, in depth, and at an accelerated rate. Students explore the same topics as the World History and Geography course, but the students will have a higher emphasis placed on critical thinking and

examinations of historical texts. Students in this course will study world history from the Renaissance to the present and will think critically about the various forces that combined to shape the world today. Emphasis is placed on geographic impact development of civic knowledge/responsibilities, and emerging economic systems within a chronological context. This course fulfills the graduation requirement for one credit of social studies

230016 United States History to 1877, Grade 10

Fee: none 2 semesters, 1 credit
Prerequisite: successful completion of ninth grade course

This course is a survey of US History from the Age of Exploration to 1877. Its primary emphasis is on the political, social, economic, and territorial development of this country and the emergence of the US in a world leadership role. This course fulfills the graduation requirement for one credit of social studies

230017 Honors United States History to 1877, Grade 10

Fee: none 2 semesters, 1 credit
Prerequisite: Honors World History: 1500 to Present or teacher recommendation

This course will cover the same historic development of American history from the discovery of our country to 1877. The honors course will go far beyond the regular course in scope and preparation time for the student. Several different classroom activities such as debate, journal articles, diaries, counter-factual assignments, and research papers will be utilized. The course will emphasize document based questions where the student has to read and interpret graphs, tables, and charts much like the student will encounter on the advanced placement exam. This course is a survey of US History from the Age of Exploration to 1877. Its primary emphasis is on the political, social, economic, and territorial development of this country and the emergence of the US in a world leadership role. Students in this course will study topics in more depth and reflect on learning through advanced writing activities, debates, and journals articles. This course fulfills the graduation requirement for one credit of social studies.

230019 United States History from 1877, Grade 11

Fee: none 2 semesters, 1 credit
Prerequisite: United States History to 1877 or its equivalent

This course is a survey of United States History from 1877 to the present. Its principal emphasis is on the political, social, economic, and territorial development of this country and the emergence of the US in a world leadership role. This course fulfills the graduation requirement for one credit of social studies.

230020 Honors United States History 1877 to Present, Grade 11

Fee: none 2 semesters, 1 credit
Prerequisite: Honors United States History to 1877, and/or teacher/counselor recommendation

This course provides advanced work in the chronological survey of major events and issues: industrialization; Progressivism; foreign policy, World War I; the Great Depression; World War II; post-war United States, concepts related to Alabama history and geography.

230022 United States History, AP (Advanced Placement)

Fee: none 2 semesters, 1 credit
Prerequisite: Honors United States History to 1877

The advanced placement course is designed for the motivated student desiring an in-depth and challenging study of United States history AP students should possess excellent study habits and analytical/writing skills. Learning activities include historical reenactments/simulations, debate, cooperative group work, research, and discussion. The program prepares students for college by making demands upon them equivalent to those of an introductory college course. The Advanced Placement Course of Study, published by the College Board, will be used as the guide for this course. College credit may be granted based on the examination score and the guidelines of individual colleges and universities. Students will receive 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

**230024 History of the Americas I, IB
(International Baccalaureate)**

Fee: none 2 semesters, 1 credit

Prerequisite: Admission to the IB Programme
(Offered at Central High School)

International Baccalaureate (IB) History of the Americas 1 provides students with an in-depth thematic study of the Americas. This course introduces students to history as a discipline and helps students understand the processes of historical inquiry. The course is a detailed study of the political, social, economic, and cultural history of the nations of the Americas, with emphasis on the history of the United States up to the late 1800s. Students complete one or more written research projects on a historical subject of their choice. Research projects are presented to a group of IB peers for evaluation.

**230026 History of The Americas II, IB
(International Baccalaureate)**

Fee: none 2 semesters, 1 credit

Prerequisite: AP US History and admission to
the IB Programme
(Offered at Central High School)

History of the Americas II provides students with an in-depth thematic study of the Americas. The course is a detailed study of the political, social, economic, and cultural history of the nations of the Americas, with emphasis on the history of the United States in the 20th century. Students complete one or more written research projects on a historical subject of their choice. Research projects are presented to a group of IB peers for evaluation.

230029 European History, AP (Advanced Placement)

Fee: none 2 semesters, 1 credit

Prerequisite: none

The study of European history since 1450 introduces students to cultural, economic, political, and social development that played a fundamental role in shaping the world in which they live. Empowered with this knowledge, students will gain the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of the AP program in European History are to

develop (a) an understanding of some of the principal themes in modern European History, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing.

Students will receive 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

230041 United States Government

Fee: none 1 semester, ½ credit

Prerequisite: US History 1877 to Present or its
equivalent

This course serves as the capstone of the K-12 curriculum. Students in this course gain the knowledge and skills necessary for civic responsibility. In American Government students draw on the knowledge and skills from their previous study of United States, world history, and geography as background information. The course focuses on the origins and functions of government as well as the intellectual influences in the development of representative democracy in America. Through a detailed study of the United States Constitution, students become knowledgeable of the structure and workings of government at all levels in the state and nation.

230051 Economics

Fee: none 1 semester, ½ credit

Prerequisite: US History 1877 to Present or its
equivalent

Economics provides students with detailed knowledge in the workings of modern-day economic systems, in particular the American capitalist system. Students acquire information about basic economic concepts and skills in the interpretation of graphic economic data. Students apply information and skills to the analysis of issues and problems in contemporary economic systems. The study of economics includes the use and interpretation of maps, charts, graphs, tables, and other expressions of statistical data.

230042 United States Government, Honors

Fee: none 1 semester, ½ credit

Prerequisite: Honors United States
History from 1877 to the Present, and/or
teacher/counselor recommendation

US Government, Honors will go far beyond the regular course in scope and preparation time for the student. US Government course serves as

the capstone of the K-12 curriculum. Students in this course gain the knowledge and skills necessary for civic responsibility. In American Government, students draw on the knowledge and skills from their previous study of United States, world history, and geography as background information. The course focuses on the origins and functions of government as well as the intellectual influences in the development of representative democracy in America. Through a detailed study of the United States Constitution, students become knowledgeable of the structure and workings of government at all levels in the state and nation.

230052 Economics, Honors

Fee: none 1 semester, ½ credit

Prerequisite: Honors United States History from 1877 and/or teacher/counselor recommendation

Honors Economics will go far beyond the regular course in scope and preparation time for the student. Economics provides students with detailed knowledge in the workings of modern-day economic systems, in particular the American capitalist system. Students acquire information about basic economic concepts and skills in the interpretation of a graphic economic data. Students apply information and skills to the analysis of issues and problems in contemporary economic systems. The study of economics includes the use and interpretation of maps, charts, graphs, tables, and other expressions of statistical data.

230047 United States Government and Politics, AP (Advanced Placement)

Fee: none 1 semester, ½ credit

Prerequisite: Honors U. S. History to 1877 and U.S. History from 1877

This college-level survey course is designed to provide students with the skills and factual knowledge to deal with material and evidence concerning government and politics. This course follows the curriculum established by the College Board Advanced Placement (AP) Program for U.S. Government and Politics.

230054 Macroeconomics, AP (Advanced Placement)

Fee: none 1 semester, ½ credit

Prerequisite: Honors U. S. History to 1877 and U.S. History from 1877

The focus of this macroeconomics course is the U.S. capitalist system. The content will help students develop critical thinking skills through the understanding, application, and analysis of fundamental economic concepts. Students will weigh the merits of different economic theories and understand the divergent policies that ensue. This course will illustrate the derivation of major statistical measures and how to use models such as graphs, to predict the outcome of domestic and foreign policy decisions. Students will be taught the explanation of Keynesian Economics, as well as the use of monetary and fiscal policy. Completion of the course and a score of three or better on the AP exam may earn college credit. Students will receive 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

230055 Microeconomics, AP (Advanced Placement)

Fee: none 1 semester, ½ credit

Prerequisite: Honors United States History from 1877 to the Present

The focus of this microeconomics course is the study of the economic behavior of individuals and firms within individual markets. These markets include: perfect competition, monopoly, and imperfect competition. The content will help students develop critical thinking skills through understanding the application and analysis of fundamental economic concepts. Students will weigh the merits of different economic theories and understand the divergent policies that ensue. The microeconomics student will also understand the tools and methods economists use for problem solving as well as develop a basic understanding of markets and market failures. The course will also include an understanding of factor markets including labor and capital. Completion of the course and a score of three on the AP exam may earn college credit. Students will receive 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

230071 Psychology

Fee: none 1 semester, ½ credit
Prerequisite: none

The objective of psychology as a social science elective course is to understand, explain, and predict the behavior of individuals. This course employs basic theories, concepts, principles, and research findings to analyze human behavior with emphasis on individual differences, motivation, personality, learning perception, and social behavior.

230072 Psychology, AP (Advanced Placement)

Fee: none 1 semester, ½ credit
Prerequisite: none

In this course, students will demonstrate an understanding of themselves and of other human beings, appreciate psychology as a discipline and as relevant to the student's own life, be introduced to psychological inquiry with emphasis on scientific method, and to be aware of and sensitive to people with mental illness. Key subject areas to be studied include physiological psychology, social psychology, developmental psychology, cognition and learning, personality, and psychological disorders and treatment. Students will receive 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

230073 Psychology, SL, IB (International Baccalaureate)

Fee: none 2 semesters, 1 credit
Prerequisite: Admission to the IB Programme
(Offered at Central High School)

In this course, students demonstrate an understanding of themselves and of other human beings, appreciate psychology as a discipline and as relevant to the student's own life, are introduced to psychological inquiry with emphasis on scientific method, and become aware of and sensitive to people with mental illness. Key subject areas to be studied include physiological psychology, social psychology, developmental psychology, cognition and learning, personality, and psychological disorders and treatment.

230074 Psychology, HL, IB (International Baccalaureate)

Fee: None 2 semesters, 1 credit
Prerequisite: Admission to the IB Programme
and IB SL Psychology
(Offered at Central High School)

In this course, students will demonstrate an understanding of themselves and of other human beings, appreciate psychology as a discipline and as relevant to the student's own life. Students will be introduced to psychological inquiry, with emphasis on scientific method, and become aware of and sensitive to people with mental illness. Key subject areas to be studied include social-cultural psychology, biological psychology, cognitive psychology, and sports psychology.

230081 Sociology

Fee: none 1 semester, ½ credit
Prerequisite: none

This elective course provides a foundation that will enable students to understand people and their interaction with the world in which they live. Self-awareness is a study of personality, intelligence, learning theories, and techniques. It examines problems, attitudes, heredity-environmental interaction, and provides for study of the many aspects of adjustment including those relating to family relations, and relations with authority figures. Outside reading is required.

230095 Theory of Knowledge, IB (International Baccalaureate)

Fee: none 2 semesters, 1 credit
Prerequisite: Admission to the IB Programme
(Offered at Central High School)

This interdisciplinary course, a foundation of the IB curriculum model, is designed to provide coherence by exploring the nature of knowledge across all disciplines, encouraging an appreciation of other cultural perspectives. IB Theory of Knowledge will provide students with the opportunity to make connections between subjects such as knowledge and truth, language, logic, mathematics, science, social science, history, ethics, political judgment, and aesthetics. Students will use both oral and written communication extensively to express and explore their ideas and feelings about their knowledge. Students are required to write a formal paper of 1200-1600 words and to

produce and present a project related to the course.

230212 Other Social Studies Elective

Fee: none 2 semesters, 1 credit

This course is designed to provide students with the opportunity to discover how the military has shaped the history of mankind. The class will begin with earliest battles in ancient Mesopotamia to today's war in Iraq. The course will allow students to explore how conflicts have had the power to shape and change the world.

700031 LS I: World History, Grade 9

Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

This course is a study of world history from 1500 to the present. Students are able to apply and utilize their knowledge to develop informed opinions about issues such as the quest for peace, human rights, trade, global ecology and the impact each has on everyday life situations.

700032 LS II: U.S. History to 1877, Grade 10

Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

This course follows a chronological study for major events, issues, movements, leaders, and groups of people of the United States through 1877 from a national and Alabama perspective.

700033 LS III: U.S. History from 1877, Grade 11

Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

This course begins with the post-Reconstruction United States and its shift into a more industrialized society and continues through the twentieth century to the present.

700034 LS IV: Economics, Grade 12

Fee: none 1 semester, ½ credit
Prerequisite: IEP team decision

This one-semester course focuses on the functions and institutions of modern-day economic systems and theory. Students gain skills that will enable them to anticipate changes in economic conditions and how to adjust to the changes to improve their lives and their communities.

700035 LS IV: U.S. Government, Grade 12

Fee: none 1 semester, ½ credit
Prerequisite: IEP team decision

This one-semester course focuses on the origins, structure, and functions of government at all levels. It also includes a detailed study of the Constitution of the United States and its provisions.

SCIENCE

Example Course Sequences

OPTION I (Math average of "C" or below)	
9 th	Biology
10 th	Physical Science
11 th	Based on 4-year plan, select from the following options: <ul style="list-style-type: none"> Chemistry Earth and Space Science Environmental Science Zoology Forensic Science Physics Human Anatomy and Physiology
12 th	Based on 4-year plan, select from the following options: <ul style="list-style-type: none"> Chemistry Earth and Space Science Environmental Science Physics Human Anatomy and Physiology Zoology Forensic Science
OPTION II (Math average of "B" or "C")	
9 th	Biology
10 th	Physical Science
11 th	Based on 4-year plan, select from the following options: <ul style="list-style-type: none"> Chemistry Honors Chemistry Human Anatomy and Physiology (see course descriptions for course prerequisites)
12 th	Based on 4-year plan, select from the following options: <ul style="list-style-type: none"> Human Anatomy and Physiology Physics AP Biology

OPTION III (Math average of "A" or "B")	
9 th	Biology/Honors Biology
10 th	Based on 4-year plan, select from the following options: <ul style="list-style-type: none"> • Honors Chemistry • Chemistry
11 th	Based on 4-year plan, select from the following options: <ul style="list-style-type: none"> • Physics • Human Anatomy and Physiology • AP Biology • AP Chemistry (see course descriptions for course prerequisites)
12 th	Based on 4-year plan, select from the following options: <ul style="list-style-type: none"> • Human Anatomy and Physiology • Physics • AP Biology • AP Chemistry • AP Physics
OPTION IV (Math average of "A" or "B")	
9 th	Biology/Honors Biology
10 th	Chemistry/Honors Chemistry & Human Anatomy and Physiology
11 th	Based on 4-year plan, select from the following options: <ul style="list-style-type: none"> • Physics • AP Biology or Chemistry
12 th	Based on 4-year plan, select from the following options: <ul style="list-style-type: none"> • Physics • AP Biology, Chemistry, or Physics • Zoology

220011 Biology

Fee: none 2 semesters, 1 credit

Prerequisite: none

This course covers the Biology Core content standards: scientific process and application skills, cell processes, cell theory, photosynthesis and cellular respiration, genetics, classification, plants, animals, ecology, and biogeochemical cycles. This course fulfills the biology graduation requirement.

220012 Honors Biology

Fee: none 2 semesters, 1 credit

Prerequisites: EXPLORE score of 20 or higher, and/or teacher/counselor recommendation

Due to the pace of this course, a student should have demonstrated academic excellence in previous science and math courses.

This course is intended for students who are interested in an accelerated program. Honors Biology will incorporate Pre AP resources, materials, and strategies to prepare students who may consider taking AP Biology or are interested in a science-related career after high school. This course covers advanced work above the Biology Core content standards: scientific process and application skills, cell processes, cell theory, photosynthesis and cellular respiration, genetics, classification, plants, animals, ecology, and biogeochemical cycles. This course fulfills the biology graduation requirement. Topics are studied in a way that better prepares students for success in Advanced Placement Biology. Students are required to analyze and synthesize concepts and draw inferences from new information. Laboratory work is designed to emphasize investigation rather than illustration and greater emphasis is placed on independent thinking.

220014 AP (Advanced Placement) Biology

Fee: none 2 semesters, 2 credits, 2 periods (1 for class and 1 for lab)

Prerequisites: Honors Biology and Chemistry

This course is designed for students who will take Biology to satisfy the core curriculum of most colleges as freshman and/or students who wish to take tests for advanced standing in college Biology. Students wishing to take the AP test given in May must complete both terms of the course; the test includes information from both terms. Students will receive 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

220015 Biology, SL, IB (International Baccalaureate) Grade 11

Fee: none 2 semesters, 1 credit

Prerequisites: Honors Biology and Chemistry
(Offered at Central High School)

This course is taught with an emphasis on biology content including an application of scientific methods by which students develop an

ability to analyze, evaluate, and synthesize scientific information.

220016 Biology, HL, IB (International Baccalaureate) Grade 12

Fee: none 2 semesters, 1 credit

Prerequisites: Honors Biology and Chemistry
(Offered at Central High School)

This course is taught with an emphasis on biology content including an application of scientific methods by which students develop an ability to analyze, evaluate, and synthesize scientific information.

IB students must be admitted to the IB Programme and must take both IB Biology 11 and IB Biology 12 in order to satisfy IB diploma requirements. The IB Course of Study will be used as guides for the course.

220023 Zoology

Fee: none 2 semesters, 1 credit

Prerequisite: Biology and either Physical Science or Chemistry

Zoology is an elective course for the study of animals. A survey of the animal kingdom, including identification, distribution, structure, and function of each animal group, are topics included in this course. Major emphasis will be placed upon the study of vertebrates.

220026 Human Anatomy and Physiology

Fee: none 2 semesters, 1 credit

Prerequisite: Biology or Honors Biology, and Chemistry (can be taken simultaneously with this course)

This elective course focuses on the fundamental structure and functions of the human body. A focus is placed on the scientific process and application skills, anatomical terminology, structure and function of cells, tissues, and body systems, biochemistry, system regulation and integration. This course content helps prepare students for the biomedical/health science academy, nursing, and other health-related careers.

220027 Honors Human Anatomy and Physiology

Fee: none 2 semesters, 1 credit

Prerequisites: Biology or Honors Biology, and Chemistry (can be taken simultaneously with this course)

This elective honors course includes the study of the structure and function of the human body. A focus is placed on the scientific process and application skills, anatomical terminology, structure and function of cells, tissues, and body systems, biochemistry, system regulation and integration. Interaction between systems and medical applications will be stressed. The hands-on investigative approach is used to allow the students to be actively engaged in learning.

220029 Environmental Science

Fee: none 2 semesters, 1 credit

Prerequisites: Biology and either Physical Science or Chemistry

Environmental Science is an integrated elective science course that uses information from previous science courses to identify and provide solutions to problems. It is designed to focus on the study of ecological principles and their application to field studies and human interaction. Students will learn how certain current trends, such as population growth, water pollution, and depletion of natural resources affect the ability of the human population to sustain itself. An environmental approach will focus on four major themes of energy, systems and interactions, structure and function, and stability and change. Fieldwork is an integral and required component of this course.

220034 Forensic Science

Fee: none 2 semesters, 1 credit

Prerequisites: Biology and either Physical Science or Chemistry

This elective course focuses on the analysis of evidence collection, the decomposition process, crime scenes, skeletal remains, toxicology, and document validity. Case studies and crime scenarios help students understand the implications and complicated issues that are emerging as the science of forensics continues to develop.

220051 Physical Science

Fee: none 2 semesters, 1 credit

Prerequisite: Biology

Physical Science is a survey course of the concepts taught in chemistry and physics. Topics of study include scientific methods, properties of matter, the physical environment, and the forces of motion. It is recommended for students going through Algebra IA and IB to help

better prepare them for Chemistry. It fulfills the graduation requirement for one credit of Physical Science for the high school diploma.

220054 Physical Science Elective

Fee: none 2 semesters, 1 credit

Prerequisite: none

This general elective course provides students with the opportunity to study specialized science topics, processes, skills, applications, principles, and experimentation. Students can take this course to prepare for BEST Robotics competition in the fall and/or additional robotics competitions in the spring.

Note: This elective course does NOT fulfill the graduation requirement for Biology, "A Physical Science," or the two additional science requirements for Alabama High School Diploma requirements.

220061 Chemistry

Fee: none 2 semesters, 1 credit

Prerequisites: Biology and Algebra I or equivalent

This course covers the chemistry core associated with basic chemistry concepts of the structure, forms, changes, availability, and uses of matter and energy. It also includes the study of the types of reactions, thermochemistry, chemical kinetics, chemical equilibrium, acids/bases, solution equilibrium, electrochemistry, and organic chemistry. Students are required to analyze and synthesize concepts and draw inferences from new information. Laboratory work is designed to emphasize investigation and independent thinking. This course fulfills the Physical Science requirement for the high school diploma.

220062 Chemistry, Honors

Fee: none 2 semesters, 1 credit

Prerequisite: EXPLORE score of 20 or higher OR PLAN score of 21 or higher, Honors Biology, and/or teacher/counselor recommendation

Honors Chemistry is designed for students who are highly motivated and interested in seeking a career in a science related field. This course moves at a much faster pace than the regular chemistry class and, as a result, a greater range and depth of material will be covered.

220064 Advanced Placement (AP) Chemistry

Fee: none 2 semesters, 2 credits, 2 periods (1 for class and 1 for lab)

Prerequisites: PLAN score of 21 or higher, and/or teacher/counselor recommendation

Advanced Placement (AP) Chemistry is a laboratory-intensive course covering most topics of a first year college chemistry course. These topics include greater in-depth study of atomic theory, stoichiometry, kinetics, equilibrium, thermodynamics, electrochemistry, organic chemistry and nuclear chemistry. The Advanced Placement Course of Study published by the College Board will be used as the guide for this course. Students who wish to earn advanced placement college credit must score well on the AP Chemistry examination. Students will receive 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

220065 Chemistry, HL, IB (International Baccalaureate) Grade 11

Fee: none 2 semesters, 1 credit

Prerequisite: Chemistry
(Offered at Central High School)

IB Chemistry is a laboratory-intensive course covering most topics of a first year college chemistry course. These topics include greater in-depth study of atomic theory, stoichiometry, kinetics, equilibrium, thermodynamics, electrochemistry, organic chemistry and nuclear chemistry. To earn credit for IB Chemistry, students must be enrolled in the IB Programme.

220066 Chemistry, SL, IB (International Baccalaureate), Grade 12

Fee: none 2 semesters, 1 credit

Prerequisite: Chemistry
(Offered at Central High School)

IB Chemistry is a laboratory-intensive course covering most topics of a first year college chemistry course. These topics include greater in-depth study of atomic theory, stoichiometry, kinetics, equilibrium, thermodynamics, electrochemistry, organic chemistry and nuclear chemistry. To earn credit for IB Chemistry, students must be enrolled in the IB Programme.

220071 Physics

Fee: none 2 semesters, 1 credit

Prerequisite: Biology, Algebra II with Trigonometry, and Chemistry, and/or teacher recommendation

Physics is an advanced science course concerned with the physical world and how it functions. It is a quantitative course and is heavily dependent on students' mathematical abilities. Students perform laboratory experiments, individually or in groups. The topics covered in Physics include the universe, matter, energy, force, and motion. Students considering career in the fields of medicine, engineering, math or science should take this course.

220074 Physics B, AP (Advanced Placement)

Fee: none 2 semesters, 2 credits, 2 periods (1 for class and 1 for lab)

Prerequisites: Algebra II with Trigonometry and Physics or alternative AP science class

A study of physics encourages students to become scientifically literate by helping them gain a deeper understanding of the physical world and the universe in which they live. Students will explore common phenomena (such as motion and forces) and learn how things work. Topics will include mechanics, heat, light, sound, electricity, and magnetism, with the overarching themes of matter and energy. Time will be spent on astronomy and space, as well as advanced topics such as relativity and nuclear physics. Students will also apply mechanics to engineering with projects such as bridge and rocket building. Students must be able to complete labs and projects both individually and in groups. Students planning to take physics in college for science majors and competitive fields such as engineering, medicine, physical therapy, etc. are strongly encouraged to take AP Physics. Students will receive 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

220081 Earth and Space Science

Fee: none 2 semesters, 1 credit

Prerequisites: Biology and either Chemistry or Physical Science

This course focuses on the earth's surface, structure, and atmosphere including a study of the earth's relationship to the moon and

surrounding universe. The course introduces students to an advanced study of Earth and perspectives of the universe from Earth as well as future challenges and technologies required for space exploration.

700021 Life Skills Science I: Physical Science

Fee: none 2 semesters, 1 credit

Prerequisite: IEP team decision

This course is designed to provide students with a practical knowledge of Physical Science including scientific process and application skills, the periodic table, solutions, bonding, chemical formulas, physical and chemical changes, gravitational, electromagnetic, and nuclear forces, motion, energy, energy transformation, electricity and magnetism science, and metric units.

700022 Life Skills Science II: Biology

Fee: none 2 semesters, 1 credit

Prerequisite: IEP team decision

This course is designed to provide students with a practical knowledge of biology including scientific process and application skills, cell processes, cell theory, photosynthesis and cellular respiration, genetics, classification, plants, animals, ecology, and biochemical cycles.

700023 Life Skills Science III: Earth and Space

Fee: none 2 semesters, 1 credit

Prerequisite: IEP team decision

This course is designed to provide students with practical knowledge of Environmental Science including scientific process and application skills, natural and human impact on the environment, carrying capacity, renewable and non-renewable energy resources, properties and importance of water, land use practices, and composition and erosion of soil.

700026 Life Skills Science IV: Human Anatomy and Physiology

Fee: none 2 semesters, 1 credit

Prerequisite: IEP team decision

This course is designed to provide students with practical knowledge of Human Anatomy and Physiology including scientific process and application skills; anatomical terminology;

structure and function of cells, tissue, and body systems; biochemistry; and system regulation and integration.

Career & Technical Academies



Tuscaloosa Career & Technology Academies offer career themed programs that link the core academics with careers projected to be in demand for the next ten to twenty years. Each Academy provides a rigorous and enriching curriculum, actively involving employers and higher education institutions, in readying students for both college and careers, while also providing students with a purpose for continued learning.

Each academy provides hands-on activities that require students to problem-solve by making use of the core academics, in particular mathematics, science and English, while developing skills currently noted by business and industry as lacking, including working in teams, problem solving, communication and work ethic.

Students completing an Academy will earn work-ready credentials that will significantly enhance their portfolios, while also providing an enriched foundation to facilitate advancement in post-secondary studies. Students who maintain a "B" or better average in their chosen academy will be eligible for articulated post-secondary credit and/or preferential points for highly competitive programs.

Career technical student organizations are integral, co-curricular components of each career and technical course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth. Upon

graduation, students are prepared for post-secondary education, apprenticeship programs, and employment as well as individual, family, and community success.

Three courses in a coherent sequence are required for a Career/Technical Endorsement for rising sophomores, juniors, and seniors.

Academy Electives

The following courses are available to students in all academy programs and only at TCTA.

400025aa Career Preparedness

Fee: none 1 semester, 1 credit

NOTE: The blocked course option is only at TCTA.

This course is required for graduation and is taught in grades 9 – 12 (should be taken in grade 9). Through this course, students will gain content knowledge and skills to prepare them for college and career readiness. It incorporates three components: career development and academic planning, computer skill application, and financial literacy knowledge. This course is also designed to meet the required 20-hour online experience. Upcoming sophomores, juniors, and seniors who have not taken a course to fulfill both their 20-hour online experience requirement and one-half credit computer applications requirement will take this course in place of Business Technology Applications (BTA). BTA will no longer be offered at the high school sites due to the new diploma option and the new state course, Career Preparedness. A student may, however, fulfill both the 20-hour online experience and one-half credit computer applications through another course (ACCESS course, etc.).

400031aa Cooperative Education Seminar

Fee: none 1 semester, 1 credit
(at TCTA)

Prerequisite: application and selection

This course is a required component of the Cooperative Education work-based experience. Students enrolled in Cooperative Education programs are required to participate in the seminar one class period block each week. Students must work 270 clock hours in a work-

based learning environment to earn one credit. This course will count as one elective credit for any Career/Technical Pathway.

Note: Beginning in 2013-2014, this course will be offered and supervised at all 3 high schools (as previously offered) and TCTA.

400023 Senior Career Pathway Project

Fee: \$25 1 semester, 1 credit
Prerequisites: Completed 3 Advanced Academy courses

This course is a capstone course designed for students who have successfully invested a minimum of three advanced academy courses in any one academy. This course allows students to utilize their secondary coursework through an experience that showcases their learning. It provides an opportunity for a student to choose an area of interest and engage in an in-depth exploration of the area while demonstrating problem-solving, decision-making and independent-learning skills. The Senior Career Pathway Project contributes to an education plan of challenging courses and practical experiences that prepares students for post-secondary education studies and training.

420024 Fish and Wildlife Management

Fee: \$25 1 semester, 1 credit
Prerequisite: none

This course provides students with the opportunity to gain knowledge regarding the management of natural resources. Topics included in the course are career opportunities, outdoor safety, history, issues, classification, fish and wildlife ecology, fish and wildlife management, endangered species, fish and wildlife pest management, and outdoor recreation. Students enrolled in this class may earn certification in the Alabama Hunter's Education course.

802200bb Workforce Academy Readiness

Fee: \$25 1 semester, 1 credit
Prerequisites: Grades 11 or 12

Workforce Academy Readiness is a one-credit course that provides students with higher-level academic and occupational skills that are transferable across jobs and occupational areas. Emphasis is placed on preparing students to apply for the MBUSI apprenticeship programs and will include academic foundations for careers; applied technology; career

development and employment; entrepreneurship and business economics; social and ethical responsibility, leadership and teamwork; safety and health; and technical knowledge and skills. Students build on prior knowledge, strengths, interests, and needs that enhance preparation for future employment and continuing education and training.

Animation & Media Design and Technology Academy

The Animation, Media Design & Technology Academy provides students with unique opportunities to develop fundamental skills necessary for careers as animators, broadcast journalist, or filmmakers. Coursework introduces students to emerging applications in film direction & production, visual art & 3D animation, and broadcast media & technology. Training within the Animation, Media Design & Technology Academy strives to mirror the professional working environments found in animation, television, and film studios. Upon completion of the coursework within these various pathways, students will have learned and can apply this knowledge to further study at 2 or 4-year colleges/universities, or obtain entry-level positions in the Animation, Broadcast Media, or Film industries.

Animation Program

Animation		
Grade Pathway	Course #	Course
9 th Grade	440041	Introduction to Animation
	440042	Animation Layout
10 th Grade	440044	Storyboarding
	440043	Animation Character Development and Design
11 th Grade	440045	Character Animation
	440046	Animated Filmmaking
12 th Grade	440047	Advanced Animation Portfolio
	400023	Senior Career Pathway Project

440041 Introduction to Animation and Visual Communication

Fee: \$25 1 semester, 1 credit
Prerequisite: BTA or equivalent/
teacher recommendation

This course introduces students to the animation industry. Emphasis is placed on safety in a laboratory and studio environment. Students apply the principles of animation to visually communicate thoughts, feelings, and ideas. Topics of study include animation history, criticism, production, and materials and media utilized in the field. Successful completion of this course prepares students for subsequent courses in animation.

440042 Animation Layout

Fee: \$25 1 semester, 1 credit
Prerequisite: Introduction to Animation and Visual Communication;
Teacher Recommendation

This course provides students with the opportunity to explore illustration as related to settings, locations, and environments for animated film. Students utilize design principles to create believable environments. Topics include life, landscape, and architectural drawings. Successful completion of this course prepares students for the Storyboarding course and for entry-level careers in Animation Layout. Introduction to Animation and Visual Communication or a satisfactory portfolio review by the instructor is the prerequisite for this course.

440043 Animation Character Development and Design

Fee: \$25 1 semester, 1 credit
Prerequisite: Animation Layout;
Teacher Recommendation

This course provides students with the opportunity to develop and design animated characters. Emphasis is placed on anatomy, film archetypes and stereotypes, figure drawing, and costume design. Skills gained in this course prepare students for the Character Animation course, postsecondary education, and entry-level careers in character design. Introduction to Animation and Visual Communication, Animation Layout, or a satisfactory portfolio review by the instructor are prerequisites for this course.

440044 Storyboarding

Fee: \$25 1 semester, 1 credit
Prerequisite: Animation Character Development and Design;
Teacher Recommendation

This course provides students with the opportunity to visually illustrate and communicate ideas, themes, locations, and emotions. Storyboards are created through a variety of electronic, traditional and digital media. Successful completion of this course prepares students for the Animated Filmmaking course and entry-level careers in storyboarding. Introduction to Animation and Visual Communication, Animation Layout, or a satisfactory portfolio review by the instructor are prerequisites for this course.

440045 Character Animation

Fee: \$25 1 semester, 1 credit
Prerequisite: Storyboarding;
Teacher Recommendation

This course provides students with the opportunity to utilize the principles of animation to create animated stories with characters appearing to be self-motivated and possessing individual thought processes. Instruction allows students to focus on figure drawing, pantomime and acting, and advanced mechanics in animation. Skills gained in this course prepare students for the Animated Filmmaking course, postsecondary education, and entry-level positions in animation. Introduction to Animation and Visual Communication, Animation Layout, Storyboarding, or a satisfactory portfolio review by the instructor are prerequisites for this course.

440046 Animated Filmmaking

Fee: \$25 1 semester, 1 credit
Prerequisite: Character Animation;
Teacher Recommendation

This course provides students with the opportunity to produce entertaining animated films utilizing a variety of techniques. Topics include visual development, storyboarding preproduction, animation production, and animation technology. Successful completion of this course prepares students for Advanced Animation Portfolio, postsecondary education, and entry-level careers in Animated Filmmaking. Introduction to Animation and Visual Communication, Animation Layout,

Storyboarding, Character Animation, or a satisfactory portfolio review by the instructor are prerequisites for this course.

440047 Advanced Animation Portfolio

Fee: \$25 1 semester, 1 credit
Prerequisite: Animated Filmmaking;
Teacher Recommendation

This course provides students with the opportunity to produce portfolio-quality animation utilizing a variety of techniques. Students critique, judge, and revise previous animation that will be assembled into a final portfolio. Instruction allows students to focus on safety, studio projects, portfolio organization, and employment skills. Students are encouraged to participate in a variety of local, state, and national contests as well as to present their projects to industry professional and postsecondary educators. Successful completion of this course prepares students for postsecondary education and entry-level positions in animation or related fields. Introduction to Animation and Visual Communication, Animation Layout, Storyboarding, Character Animation, Animated Filmmaking or a satisfactory portfolio review by the instructor are prerequisites for this course.

440023 Senior Career Pathway Project

Fee: \$25 1 semester, 1 credit
Prerequisites: Successful completion of 3
Advanced Animation Courses; Instructor
Approval

This senior career pathway project for media production is a capstone course designed for students who have successfully invested a minimum of three advanced academy courses in any one academy. This course allows students to utilize their secondary coursework through an experience that showcases their learning. It provides an opportunity for a student to choose an area of interest and engage in an in-depth exploration of the area while demonstrating problem-solving, decision-making and independent-learning skills. The Senior Career Pathway Project contributes to an education plan of challenging courses and practical experiences that prepares students for post-secondary education studies and training.

Film, Digital & Media Production Program

Film, Digital & Media Production		
Grade Pathway	Course #	Course
9 th Grade	440017	Intro to Film and Digital Media
	440018	Media Production
10 th Grade	440019	Studio Production
	440004	Digital Filmmaking I
11 th Grade	440020	Digital Filmmaking II
	440021	Adv. Studio Production & Film
12 th Grade	440023	Senior Career Pathway Project

440017 Introduction to Film & Digital Media

Fee: \$25 1 semester, 1 credit
Prerequisite: none

Students will learn the basics of broadcast production. Writing, editing, and photography skills will be taught. This course also exposes students to different types of video productions including the following: network and cable programs, reality television, music videos, and movies. Upon successful completion of this course, students are able to create weekly video projects, including commercials, news stories, and mini-documentaries.

440018 Media Production

Fee: \$25 1 semester, 1 credit
Prerequisite: Introduction to Film and
Digital Media; Application

Transportation will be provided for students who need it. For those who have transportation, liability insurance is required for off-campus class assignments and video work.

This course is designed for students who already know the basics of Media Production. In a real-world Media Production environment, these students will produce a regularly scheduled television program for their school and/or community with students in the Media Production – Studio Operations and Media Production-Photography/Editing courses

440004 Digital Filmmaking I

Fee: \$25 1 semester, 1 credit

Prerequisite: Media Production;

Recommendation from ninth grade English teacher; "B" average in Media Production, Application & Instructor Approval

This course is designed to bring a unique opportunity for advanced students to learn the art of storytelling through the mediums of film, television, and digital media. Students will explore the influence and impact that visual media has on society, culture, and within certain age groups. Also offered is advanced study of principles associated with digital cinematography, editing film technique, visual effects, and screenwriting. Upon the completion of the course, students will understand the challenges faced by artists and professionals working in the film and television industries. The areas of concentration will include finance, marketing, editing, performance, visual design, storytelling, and casting.

440019 Studio Production

Fee: \$25 1 semester, 1 credit

Prerequisite: "B" average in Media Production; Recommendation from ninth grade English teacher; Application & instructor approval

Transportation will be provided for students who need it. For those who have transportation, liability insurance is required for off-campus class assignments and video work.

In a real-world Media Production environment, these students will produce or assist in the production of a regularly scheduled television program for their school and/or community with students. Students will be responsible for creating and maintaining online media content for the course. These students will act as studio assistants to the instructor(s) as well as with the students enrolled in the Advanced Studio Production course.

440020 Digital Filmmaking II

Fee: \$25 1 semester, 1 credit

Prerequisite: "B" or better average in Digital Filmmaking I, Studio Production; Application & Instructor approval

Transportation will be provided for students who need it. For those who have transportation,

liability insurance is required for off-campus class assignments and video work.

The process of digital filmmaking involves the capturing footage shot for motion pictures digitally, as opposed to film. Students in this course will build upon knowledge gained during Digital Filmmaking I to create digital documentary, historical, or creative student films. Students will learn the process of movie budgeting, casting, set creation, and other major aspects of the motion picture industry. Upon completion, students will submit their original work for consideration in a local or national film festival(s).

440021 Studio Production & Film

Fee: \$25 1 semester, 1 credit

Prerequisites: Two Advanced Film, Digital & Media Production courses

Transportation will be provided for students who need it. For those who have transportation, liability insurance is required for off-campus class assignments and video work.

This course will give the students the opportunity to create and market professional video productions. Students will learn the inner workings of both television and motion picture studios. Students will be responsible IT, equipment functionality, marketing, advertising, and budgeting.

440023 Senior Career Pathway Project

Fee: \$25 1 semester, 1 credit

Prerequisites: Completed 3 Advanced Film, Digital & Media Production Academy courses

This senior career pathway project for media production is designed for students in the Film, Digital & Media Production program. This course allows students to utilize their secondary coursework through an experience that showcases their learning. It provides an opportunity for a student to choose an area of interest and engage in an in-depth exploration of the area while demonstrating problem-solving, decision-making and independent-learning skills. The Senior Career Pathway Project contributes to an education plan of challenging courses and practical experiences that prepares students for post-secondary education studies and training.

Building Sciences Academy (Construction, Drafting, Electrical Technology, Welding and Masonry)

The Building Sciences Academy is a holistic curriculum that provides the fundamental knowledge of the architecture and construction industry, bridging construction, engineering and building research. Programs in Construction, Drafting Design, Electrical Technology, Masonry, and Welding Technology use project-based, hands-on instruction that strongly emphasize the application of mathematics, physics, chemical and environmental sciences. Daily attendance is a critical component for student success. Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom instruction and career development.

Grade Pathway	Course #	Course
9 th Grade	430004	(REQUIRED PREREQUISITE) <i>Architecture, Construction and Manufacturing</i>
	420024	<i>Fish and Wildlife Management (Optional)</i>
	410010	<i>Introduction of Masonry (Optional)</i>
	410006	<i>Construction Site Preparation and Foundation (Optional)</i>
10 th Grade	410006	<i>Construction Site Prep and Foundation (Optional)</i>
	410007	<i>Construction Framing</i>
	410005	<i>Introduction to Drafting</i>
	430011	<i>Advanced Drafting Design</i>
	430051	<i>Basic Wiring</i>
	430053	<i>Commercial Wiring</i>
	430070	<i>Introduction to Welding</i>
	430071	<i>Applied Welding I w/Plasma Arc Cutting</i>
	410010	<i>Introduction to Masonry</i>
11 th Grade		<i>Begin any introductory level program to indicate pathway</i>
	410008	<i>Construction Finishing and Interior Systems</i>
	430013	<i>Introduction to Architectural Design</i>
	430015	<i>Advanced Architectural Design</i>
	430054	<i>Motor Controls</i>
	540012	<i>Digital Electronics</i>
	430072	<i>Applied Welding II w/Carbon Arc Cutting</i>
	430075	<i>Gas Metal Arc Welding</i>
	430041	<i>Residential Masonry I</i>

	430042	<i>Residential Masonry II</i>
12 th Grade	<i>Any of the above mentioned courses</i>	
	430016	<i>3-D Solid Model Design I</i>
	430017	<i>3-D Solid Model Design II</i>
	430056	<i>Electromechanical Controls</i>
	540032	<i>Robotics Application</i>
	430076	<i>Flux Core Arc Welding</i>
	430077	<i>Gas Tungsten Arc Welding I</i>
	430078	<i>Gas Tungsten Arc Welding II</i>

430004 Architecture, Construction and Manufacturing

Fee: \$25 1 semester, 1 credit
Prerequisite: None

This course is a required course for students pursuing the Building Science Academy. Course content provides students with an overview of the Building Science Academy which includes Construction, Drafting Design, Electrical Technology, Masonry and Welding. While enrolled in the class, students will be engaged in challenging curricula and develop technical skills in the areas of safety, related mathematics, usage of hand and power tools, blueprint reading, basic rigging, and basic employability skills. Students successfully completing the class with a minimum of 70% on all skill areas will earn the NCCER Certification for Core Curriculum—a nationally recognized industry credential.

Construction Program

410006 Construction Site Preparation and Foundation

Fee: \$25 1 semester, 1 credit
Prerequisite: none

This course is designed to facilitate student understanding of the first phases of construction. Students become familiar with types of structures and their uses. Topics include career opportunities, safety, planning, location, layout, concrete and masonry and foundations of various structures.

410007 Construction Framing

Fee: \$25 1 semester, 1 credit
Prerequisite: Construction Site Preparation and Foundation

This course is designed to facilitate student understanding of the framing phase of a structure, including framing components. Topics

include career opportunities, safety, lumber, material estimation, floor systems, wall framing, ceiling framing, stair construction, roof framing, and roof materials in various structures. This course encourages critical thinking, use of scientific method, integration of technology, development of student leadership skills, and application of knowledge and skills related to practical questions and problems. Safety concepts are integrated into instruction to the maximum extent possible.

410008 Construction Finishing and Interior Systems

Fee: \$25 1 semester, 1 credit
Prerequisite: Construction Framing

This course is designed to facilitate an understanding of the exterior and interior finishing of a structure. Topics include career opportunities, safety, windows, doors, plumbing, electrical wiring, insulation, wall coverings, storage, and finishes. This course encourages critical thinking, use of scientific method, integration of technology, development of student leadership skills, and application of knowledge and skills related to practical questions and problems. Safety concepts are integrated into instruction to the maximum extent possible.

Drafting: Engineering/Architectural Drawing Program

Drafting Design uses technical drawing and computer skills to create drawings, plans, and computer models used in building, manufacturing design and construction fields. Computer-Aided Design and Drafting (CADD) skills are critical in engineering, construction, architectural and interior design, fashion design, manufacturing and developmental designs of parts and products, including automotive, aerospace, marine vessel/equipment, and multimedia design, photographic rendering and animation. Strong mathematical skills, including measures and fractions, as well as special/conceptual design, as well as critical thinking skills are recommended. Students participate in SkillsUSA as an integral part of the instructional program. College credit options are available with a "B" or better average in three or more courses in any one pathway.

410005 Introduction to Drafting Design

Fee: \$25 1 semester, 1 credit
Prerequisite: "C" or above in Algebra I and Geometry; Instructor's approval

This foundational program is open to students, grades 10-12, and provides the framework for preparing students interested in pursuing a profession in engineering, architecture, design, and construction related fields in the basics of Computer-Aided drafting and design. Emphasis is placed on student safety, tools, procedures, visualization, sketching orthographic projection, geometric construction, and dimensioning practices. Computer-Aided drafting (CAD) functions and techniques using CAD software applications are introduced.

430011 Advanced Drafting Design

Fee: \$25 1 semester, 1 credit
Prerequisite: Introduction to Drafting Design

This course is for students who are interested in engineering and related mechanical drafting areas that provide a more in-depth study of mechanical design. Emphasis is placed on detailed parts drawings, bill of materials, and assembly drawings. Students are introduced to basic Geometric Dimensioning and Tolerancing (GD&T) applications. Through intersections and development, students acquire basic sheet metal forming knowledge. Using this knowledge, students lay set out and form models of geometric figures. Career readiness projects allow students opportunities to research industry standards and practices.

430016 Three-Dimensional Solid Design I

Fee: \$25 1 semester, 1 credit
Prerequisite: Advanced Drafting Design

This course is intended to introduce the students to three-dimensional modeling utilizing three-dimensional capabilities of computer-aided design (CAD) software. Emphasis is placed on working planes, profile creation, protrusions, extrusions, and rendering techniques. Students create two-dimensional part drawings relative to three-dimensional models.

430017 Three-Dimensional Solid Design II

Fee: \$25 1 semester, 1 credit

Prerequisite: Three-Dimensional Solid Design I

This course is intended for advanced students in three-dimensional modeling. Emphasis is placed on assembly, animation, and sheet metal concepts. Students organize and develop a career-related project based on current research and design practices.

430013 Introduction to Architectural Design

Fee: \$25 1 semester, 1 credit

Prerequisite: Advanced Drafting Design

Students in grades 10 through 12 will be introduced to the basic terminology, concepts, and principles of the architectural design field. Emphasis is placed on floor plan lay out, electrical layout, foundations, typical elevations, and section drawings. Upon successful completion of this course, students are able to draw a basic residential architectural construction drawing.

430014 Intermediate Architectural Design

Fee \$25 1 semester, 1 credit

Prerequisite: Introduction to Architectural Design

This course provides students with instruction and experiences in advanced architectural design concepts and principles including residential architectural layout and plans.

430015 Advanced Architectural Design

Fee: \$25 1 semester, 1 credit

Prerequisite: Introduction to Architectural Design

This course is for students who are interested in architecture and related architectural drafting areas that provide more in-depth study of architecture. Emphasis is placed on detailed residential drawings, bill of materials, and assembly drawing. Career readiness projects allow students opportunities to research industry standards and practices.

Electrical Technology Program**430051 Basic Wiring**

Fee: \$25 1 semester, 1 credit

Prerequisite: Sophomore level or higher "C" or better in Algebra I or its equivalent highly recommended

This course addresses a broad basic understanding of electrical theory and wiring. The course emphasizes safety while addressing topics such as shop rules, job opportunities, safety, tools meters, measuring devices, DC/AC theory, and the national and local codes. Upon successful completion of this course, students are to understand circuitry and perform basic wiring patterns.

410009 Residential Wiring

Fee: \$25 1 semester, 1 credit

Prerequisite: Basic Wiring
Successful completion of Basic Wiring with a "C" or better

This course addresses various aspects of residential wiring. Students are provided with opportunities to practice lab procedures in a simulated residential setting. The course emphasizes safety, correct wiring, and fundamentals and incorporates the National Electrical Code (NEC) requirements. Upon completion of the course, students are able to complete the wiring of a house with limited supervision.

430053 Commercial Wiring

Fee: \$25 1 semester, 1 credit

Prerequisite: Residential Wiring

This course provides students with knowledge and skills for wiring a commercial building. Students have the opportunity to learn ways to bend and install different types of conduit. Topics addressed in this course include: electrical devices, over-current protection, grounding, raceways, boxes and fitting, and blueprint symbols and components. Emphasis is placed on safety and the incorporation of the National Electrical Code (NEC) requirements and correct wiring fundamentals. Upon successful completion of this course, students are able to assist in wiring a commercial building with supervision.

430052 Industrial Wiring

Fee: \$25 1 semester, 1 credit
Prerequisite: Commercial Wiring

This course provides students with information regarding the basic types of wiring for a factory. Students have the opportunity to learn to bend and install conduit used on industrial sites. Emphasis is placed on safety and the incorporation of the National Electrical Code (NEC) requirements. Upon successful completion of this course, students are able to perform wiring installation in an industrial setting with supervision.

430054 Motor Controls

Fee: \$25 1 semester, 1 credit
Prerequisite: Industrial Wiring

This course provides students with information regarding alternating, direct current motors and industrial motor control. Upon completion of this course, students are able to perform connections and troubleshooting techniques.

430056 Electromechanical Control

Fee: \$25 1 semester, 1 credit
Prerequisite: Successful completion of Motor Controls with a "C" or better average.

This course is designed to provide students with the fundamental knowledge and skills for this area of the electrical industry. Emphasis is placed on job safety, electronic control systems, programmable logic controller, and robotics. Upon successful completion of this course, students perform basic tasks related to the electrical industry.

430057 National Electrical Code and Journeyman's Preparation

Fee: \$25 1 semester, 1 credit
Prerequisite: Successful completion ("C" or better) in 3 electrical technology courses and/or instructor's approval

This course provides students with the fundamental knowledge and skills needed for this area of electrical industry. Students have opportunities to learn code requirements for hazardous locations, modular home communities, garages, theaters, hospitals, airport hangers, service stations, explosion-proof applications, and special equipment. Upon successful completion of this course, students are able to understand and use the National

Electrical Code (NEC) in preparation for the Journeyman's Competency Test.

Masonry Program

Masonry is a critical structural and artistic component used in residential and commercial construction. Masonry requires considerable application of mathematical computation; therefore, students are encouraged to have successfully completed Algebra 1 or Algebra IA and IB prior to taking any of the masonry classes. Daily attendance and participation is a critical component for overall success in the program. Participation in SkillsUSA, the Career Technical Student Organization for Masonry, is encouraged and emphasizes leadership activities, co-curricular opportunities, and opportunities to enhance employability skills.

410010 Introduction to Masonry

Fee: \$25 1 semester, 1 credit
Prerequisite: none

This course is designed to provide students with the basic knowledge and skills of masonry. Emphasis is placed on safety, tools of trade, measuring, blueprint reading and layout, and masonry wall construction. Upon successful completion of this course, students demonstrate basic block and brick construction techniques.

430040 Block Wall Construction

Fee: \$25 1 semester, 1 credit
Prerequisite: Successful completion of Introduction to Masonry

This course is designed to provide students with the fundamental knowledge and skills for constructing a block wall. Emphasis is placed on job safety, interpretation of drawings and specifications, footing and site preparation, estimation of materials and supplies needed for a block wall construction, and jointing and pointing. Upon successful completion of this course, students are able to perform a variety of masonry techniques.

430041 Residential Masonry I

Fee: \$25 1 semester, 1 credit

Prerequisite: Successful completion of
Block Wall Construction

This course is designed to provide students with the fundamental knowledge and skills for this area of the construction industry. Emphasis is placed on job safety, interpretation of residential masonry plans and drawings. Students construct foundations and footings, walls and openings, prepare elevated work stations, and identify a variety of types of insulations. Upon successful completion of this course, students perform basic tasks related to the masonry industry.

430042 Residential Masonry II

Fee: \$25 1 semester, 1 credit

Prerequisite: Successful Completion of
Introduction to Masonry & Block Wall
Construction

This course is designed to provide students with advanced knowledge and skills for this area of the construction industry. Emphasis is placed on job safety, identification of building codes, foundations, brick veneer walls, bonding, and estimate of materials and supplies needed for a project. Upon successful completion of this course, students perform basic tasks related to the masonry industry.

Welding Program

430070 Introduction to Welding

Fee: \$25 1 semester, 1 credit

Prerequisite: "C" or higher in
Architecture Construction and Manufacturing

This course provides students with a fundamental understanding of blueprint reading, weld symbols, and weld joints, rules for safety, and identification and use of tools and shop equipment. Students acquire knowledge for safe operation of oxy-fuel cutting and shielded metal arc welding processes. Upon successful completion of this course, students are able to interpret lines, views, and dimensions of weld joint configurations and weld symbols; identify oxy-fuel cutting equipment and components; determine proper setup equipment for application; identify safety hazards, and welding equipment related to shielded metal arc welding; and make quality welds with E-010 and E-7018

electrodes in the flat, horizontal, vertical, and overhead positions. This entry-level course may be taken as one of the optional technique courses with credit applied to the Industrial Maintenance Technology program.

430071 Applied Welding I with Plasma Arc Cutting

Fee: \$25 1 semester, 1 credit

Prerequisite: Successful completion of
Introduction to Welding

This course provides students with instruction regarding safety and terminology in the shielded metal arc welding (SMAW) process, equipment identification, setup and operation of plasma arc equipment, and reading and interpreting detailed drawings. Emphasis is placed on striking and controlling the arc and proper fitting of weld joints. Upon successful completion of this course, students are able to perform fillet welds in the 1-F and 2-F positions with E-6010 and E-7018 electrodes in accordance with the American Welding Society (AWS) D1.1 codes. Students identify safety hazards, gases, and equipment, and practice the operation of manual plasma arc cutting equipment while observing safety precautions.

430072 Applied Welding II with Carbon Arc Cutting

Fee: \$25 1 semester, 1 credit

Prerequisite: Applied Welding I with
Plasma Arc Cutting, Successful
completion of Introduction to Welding.

This course introduces students to the proper setup and operation of shielded metal arc welding (SMAW) equipment in the vertical, 3-F and overhead, 4-F positions. Emphasis is placed on striking and controlling the arc. Proper setup and operation of manual air carbon and gouging and cutting operations on plain carbon steel are addressed. Upon successful completion of this course, students are able to perform fillet welds in the vertical, 3-F and overhead, (4-F) positions with E-6010 and E-7018 electrodes in accordance with the AWS D1.1 code and produce industry quality cuts with carbon arc cutting equipment.

430075 Gas Metal Arc Welding I

Fee: \$25 1 semester, 1 credit
Prerequisite: Applied Welding I with
Plasma Arc Cutting

This course provides instruction on the various transfer methods of Gas Metal Arc Welding (GMAW) fillet welds. Topics include safety, equipment setup, joint design and preparation, and gas flow rates. Upon successful completion of this course, students are able to perform fillet welds in the flat fillet, 1-F, horizontal fillet, 2-F, vertical up-and-down fillet, 3-F, and overhead fillet weld, 4-F, positions.

430076 Flux Core Arc Welding

Fee: \$25 1 semester, 1 credit
Prerequisite: Advanced Shielded Metal Arc Welding (SMAW), Groove Welds, and Welding Inspection and Testing Level 2

This course introduces students to the flux core arc welding (FCAW) process. Emphasis is placed on safe operating practices and on handling and storage of compressed gasses. Students demonstrate manual welding skills on carbon steel using the flux core arc welding process in the flat fillet (1-F) horizontal fillet, (2-F), vertical fillet (3-F) and overhead fillet weld (4-F) positions. Upon successful completion of this course, students are able to make quality welds in the 1-F, 2-F, 3-F, and 4-F positions. Through an articulation agreement with community colleges, students may be eligible for college credit upon successful completion of this course.

430077 Gas Tungsten Arc Welding I

Fee: \$25 1 semester, 1 credit
Prerequisite: Successful completion to Introduction to Welding, Applied Welding I with Plasma Arc Cutting, Applied Welding II with Carbon Arc Cutting, Gas Metal Arc Welding

This course provides students with instruction and hands-on activities utilizing the Gas Tungsten Arc Welding (GTAW) process for producing fillet welds in the flat, 1-F, and horizontal, 2-F, positions using both ferrous and non-ferrous metals according to AWS D1.1 code. Topics include safety of operation and setup of GTAW equipment and the selection of tungsten, polarity, shielding gas, and filler metals. Upon successful completion of this course, students are able to produce fillet welds

on ferrous and non-ferrous metal using the GTAW process according to AWS code D1.1.

430078 Gas Tungsten Arc Welding II

Fee: \$25 1 semester, 1 credit
Prerequisite: Gas Tungsten Arc Welding I

This course provides students with instruction and hands-on activities utilizing the Gas Tungsten Arc Welding (GTAW) process for producing fillet welds in the vertical, 3-F, and overhead, 4-F, positions, using both ferrous and non-ferrous metals according to AWS D1.1 code. Topics include safe operation of GTAW equipment; equipment setup; and selection of tungsten, shielding gas, and filler metals. Upon successful completion of this course, students are able to produce fillet welds on ferrous and non-ferrous metals using the GTAW process according to AWS code D1.1

Engineering Academy (Project Lead The Way) PLTW

Project Lead The Way (PLTW) is a nationally recognized curriculum that offers hands-on, problem-based comprehensive lessons and emphasizes critical thinking, creativity, innovation, and real-world problem solving. Through PLTW courses, students will be provided with a foundation and proven path to post-secondary, training, and career success in STEM-related fields. PLTW is now used in 50 states at 4,500 implementation sites.

Project Lead the Way implementation will begin in middle school in CTE electives that include an overview of the following curriculum: Design & Modeling, Automation and Robotics, Energy and the Environment, Flight and Space, Magic of Electrons, and Science of Technology. These courses will prepare students for the Engineering Academy or for other STEM-related interests.

Grade Pathway	Course #	Course
9 th Grade	560015	Introduction to Engineering Design
	410005	Introduction to Drafting Design (Optional)
10 th Grade	560016	Principles of Engineering
	430011	Advanced Drafting Design (Optional)
11 th Grade	560020	Civil Engineering and Architecture
	430013	Introduction to Architectural Design (Optional)
12 th Grade	560021	Computer Integrated Manufacturing
	560022	Engineering Design and Dev.

560015 Introduction to Engineering Design: Project Lead the Way (PLTW)

Fee: \$25 1 semester, 1 credit
Prerequisite: none

This course uses a design development process while enriching problem-solving skills. Students create and analyze models using specialized computer software.

560016 Principles of Engineering: Project Lead the Way (PLTW)

Fee: \$25 1 semester, 1 credit
Prerequisite: Introduction to Engineering Design, PLTW

This course is designed to explore technology systems and manufacturing processes.

560020 Civil Engineering and Architecture: Project Lead the Way (PLTW)

Fee: \$25 1 semester, 1 credit
Prerequisite: Principles of Engineering, PLTW

This course introduces students to the interdependent fields of civil engineering and architecture. Students learn project planning, site planning, and building design.

560021 Computer Integrated Manufacturing: Project Lead the Way (PLTW)

Fee: \$25 1 semester, 1 credit
Prerequisites: Introduction to Engineering Design and Principles of Engineering, PLTW

This course is designed to enhance computer modeling skills by applying principles of robotics and automation to the creation of models of three-dimensional designs.

560022 Civil Engineering Design and Development: Project Lead the Way (PLTW)

Fee: \$25 1 semester, 1 credit
Prerequisites: Introduction to Engineering Design and Principles of Engineering, PLTW

This course is designed for students to research and formulate a solution to an open-ended engineering question. Students create written reports, defend the reports, and submit them to a panel of outside reviewers at the end of the school year.

Finance Academy

Grade Pathway	Course #	Course
9 th Grade	450006	Microsoft IT Academy I
10 th Grade	400021	Personal Finance (elective)
	450021	Business Finance
11 th Grade	470012	Accounting
	470021	Financial Management
12 th Grade	400031	Cooperative Education Seminar (Optional)
	400023	Senior Career Pathway Project

Finance, Insurance, and Corporate Finance Programs

450006 Microsoft IT Academy I

Fee: \$25 1 semester, 1 credit
Prerequisites: none

This course is designed to provide students with the 21st century technology skills necessary to acquire certification and be competitive in today's rapidly evolving workspace. MS ITA I will

help students develop basic skills that will lead to certification as a Microsoft Office Specialist, demonstrating that they are proficient in the Microsoft Office Suite and that they possess the up-to-date skills for college and career readiness. Becoming a Microsoft Office Specialist helps increase everyday productivity while providing the tools to succeed in a technology-driven world. This course is suited for the student who already has basic computer skills. Simulations and projects promoting teamwork, leadership and workplace skills offer further opportunities for application of knowledge and skills. This course satisfies the online learning experience required for the Alabama High School Diploma. Students are strongly encouraged to continue their course work by completing the Microsoft IT Academy Course II.

400021 Personal Finance

Fee: \$25 1 semester, 1 credit
Prerequisite: MS IT Academy I

This course introduces students to the management of personal and family resources to achieve personal goals and financial literacy. Course content provides opportunities for students to explore consumer behavior, laws and legislation, consumer protection, consumer rights and responsibilities, consumer decision making, advertising and promotional techniques, individual and family money management, banking services, use of credit, income tax, technology and careers in providing financial services to individuals and families. This course will count as one elective credit in the Business Informational Technology Pathway

450021 Business Finance

Fee: \$25 1 semester, 1 credit
Prerequisite: none

This course is designed to provide students with an overview of the principles of business finance. The curriculum focuses on major areas of study, including economics, marketing, accounting procedures, and the global financial market. An integral component of the curriculum is the application of decision-making skills that enables students to become more responsible consumers, producers, or business entrepreneurs.

470012 Accounting

Fee: \$25 1 semester, 1 credit
Prerequisite: MS IT Academy I

This course is designed to help students understand the basic principles of the accounting cycle. Emphasis is placed on basic accounting, analyzing and recording business transactions, preparing and interpreting financial statements, and performing banking and payroll activities.

470021 Financial Management

Fee: \$25 1 semester, 1 credit
Prerequisite: "C" or higher in Advanced Accounting

This course is designed to provide students with an overview of financial and investment planning procedures. Students interpret financial data to develop short-term and long-term budgetary plans, produce accurate reports, and make informed business decisions.

400031 Cooperative Education Seminar

Fee: \$25 1 semester, 1 credit
Prerequisite: none

This work-based experience requires a minimum of 270 continuous and successful hours of employment performed under the supervision of a workplace mentor and the work-based mentor and the work-based learning/cooperative education coordinator. Students enrolled in work-based experiences are required to participate in Cooperative Education Seminar one block period per week.

400023 Senior Career Pathway Project

Fee: \$25 1 semester, 1 credit
Prerequisites: Successful completion of three or more Finance Academy courses; instructor approval

This course is a capstone course designed for students that have successfully invested a minimum of three advanced academy courses in any one academy. This course allows students to utilize their secondary coursework through an experience that showcases their learning. It provides an opportunity for a student to choose an area of interest and engage in an in-depth exploration of the area while demonstrating problem-solving decision-making and independent-learning skills. The Senior Career

Pathway Project contributes to an education plan of challenging courses and practical experiences that prepares students for post-secondary education studies and training.

Hospitality and Tourism Academy

Grade Pathway	Course #	Course
9 th Grade	500011	Hospitality and Tourism
10 th Grade	500021	Travel and Tourism I
	500031	Lodging (Hotel Management) I
11 th Grade	500022	Travel and Tourism II
	500032	Lodging (Hotel Management) II
12 th Grade	400031	Cooperative Education Seminar
	Applicants with a "B" average may dual-enroll in the Shelton State Culinary Program upon administrative approval	

500011 Hospitality and Tourism

Fee: \$25 1 semester, 1 credit
Prerequisite: none

This is a foundation course designed to introduce students to the hospitality and tourism industry, lodging industry, and culinary arts. A school-based laboratory (commercial food service kitchen with a food serving and dining area) is required for this course.

500021 Travel and Tourism I

Fee: \$25 1 semester, 1 credit
Prerequisite: Hospitality and Tourism

This course focuses on the development, research, packaging, promotion, and delivery of a traveler's experiences that may include creating guide books, planning trips and events, managing a customer's travel plans, or overseeing a convention center.

500031 Lodging I (Hotel Management)

Fee: \$25 1 semester, 1 credit
Prerequisite: Hospitality and Tourism

This course is designed to prepare students to perform tasks related to the operation of lodging facilities and the care of guests who use these facilities, either through direct guest contact or the provision of background services that enhance guest experience.

500022 Travel and Tourism II

Fee: \$25 1 semester, 1 credit
Prerequisite: Travel and Tourism I

This course is designed to provide knowledge and skill in understanding economics, marketing operations, admissions to events, safety and security precautions, and local and regional markets.

500032 Lodging II (Hotel and Management)

Fee: \$25 1 semester, 1 credit
Prerequisite: Lodging I

This course focuses on the application of basic principles of the hotel and lodging industry. Students develop skills in various functional areas of hotel operation, including front desk operations, guest registrations, housekeeping, convention sales, food and beverage services, and guest services. A school-based laboratory is required for this course.

400031 Cooperative Education Seminar

Fee: \$25 1 semester, 1 credit
Prerequisite: none

This work-based experience requires a minimum of 270 continuous and successful hours of employment performed under the supervision of a workplace mentor and the work-based mentor and the work-based learning/cooperative education coordinator. Students enrolled in work-based experiences are required to participate in Cooperative Education Seminar one block per week.

Human Services Academy

Cosmetology Program

Cosmetology is the science of hair and skin-care techniques including hair styling and coloring, chemical services and nail care. Cosmetology is a people-oriented profession, requiring continuous professional development, long work hours and dedication.

Problem-solving and critical-thinking skills are essential, and many opportunities are provided for student growth in level of competence. Proficiency in grade level math and science, including chemistry, Algebra 1 or Algebra 1A

and B is recommended. Lab activities account for a significant part of the overall grade; therefore, daily attendance and class/lab participation is imperative to ensure success.

Students are encouraged to participate in SkillsUSA, the Career and Technical Student Organization for Cosmetology. Membership and participation in SkillsUSA serves as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth.

Grade Pathway	Course #	Course
10 th Grade	510060	Introduction to Cosmetology
	510062	Chemical Services
11 th Grade	510061	Hair Coloring
	510065	Salon Practices and Management
12 th Grade	510068	State Board Practicum
	510066	Introduction to Nail Care and Application

510060 Introduction to Cosmetology

Fee: \$25 1 semester, 1 credit

Prerequisite: Application and instructor approval; age 16 or older

This course provides students with a study of concepts related to the cosmetology profession. Specific topics include cosmetology history and opportunities, professional image, infection control, basic fundamentals, and principles of hair design. Students also gain initial practical experiences in sanitation, shampooing, hair shaping, and hairstyling. Upon successful completion of this course, students are able to practice safety and sanitary precautions as they perform basic cosmetology procedures. Introduction to Cosmetology is the prerequisite for Hair Coloring, Chemical Service, Salon Practices and Management, and State Board Practicum. Introduction to Cosmetology must be taken with Chemical Services.

510061 Hair Coloring

Fee: \$25 1 semester, 1 credit

Prerequisite: Introduction to Cosmetology and Chemical Services course completion; application and instructor approval

This course provides students with study and experience in hair coloring and lightening. Emphasis is placed on color application, laws,

levels and classifications of color, and problem solving. Upon successful completion of this course, students are able to identify all phases of hair coloring and its effects upon the hair and perform procedures for hair coloring and lightening. Hair Coloring must be taken with Salon Practices and Management.

510062 Chemical Services

Fee: \$25 1 semester, 1 credit

Prerequisite: "C" or higher in Introduction to Cosmetology; instructor approval

This course that focuses on the theory of chemical services related to chemical hair texturing. Specific topics include basics of chemistry and electricity, properties of the hair and scalp, and chemical texture services. Students also gain initial practical experience in performing various chemical texturing activities. Emphasis is placed on safety, chemical use and handling, hair and scalp analysis, and client consultation. Upon successful completion of this course, students are able to practice safety and sanitary precautions as they perform these chemical services. Chemical Services must be taken with Introduction to Cosmetology.

510065 Salon Practices and Management

Fee: \$25 1 semester 1 credit

Prerequisite: Hair Coloring and Chemical Services

This course enables students to develop entry-level management skills for the cosmetology industry. Students will practice all phases of cosmetology in a salon setting. Upon successful completion of this course, students are able to demonstrate professional work ethics and communication skills, job-seeking and management skills, and exhibit knowledge of the technology used in salons. Salon Practices and Management must be paired with Introduction to Nail Care and Application.

510068 State Board Practicum

Fee: \$25 1 semester, 1 credit

Prerequisite: Hair Coloring and Chemical Services

This culminating course provides students with a comprehensive study of State Board procedures and practical applications in cosmetology and nail care. The course consists of Pathway A—Cosmetology, content standards 1-19, and Pathway B—Nail Care Services, content

standards 1-13 and 20-22. Upon successful completion of this course, students are able to demonstrate practical skills necessary for meeting state licensure requirements and for successful employment. State Board Practicum must be taken with Salon Practice and Management.

510066 Introduction to Nail Care and Application

Fee: \$25 1 semester, 1 credit
Prerequisite: "C" or higher in Hair Coloring/Salon Practice and Management; instructor approval

This course focuses on all aspects of the nail care industry. Emphasis is placed on nail care history and opportunities, nail and skin services, sanitation and bacteriology, and salon conduct.

Information Technology (IT) Academy (Microsoft Office IT Certification; Computer Science; Computer Support Services)

Grade Pathway	Course #	Course
9 th Grade	450006	Microsoft IT Academy I
10 th Grade	450031	Microsoft IT Academy II
	Must have a "C" or better average in MS IT Academy I and Instructor Approval	
11 th Grade	410016	Multimedia Design
	Must have a "C" or better average in MS IT Academy II and Instructor Approval	
12 th Grade	410017	Multimedia Publications
	Must have a "C" or better average in Multimedia Design and Instructor Approval	

450006 Microsoft IT Academy I

Fee: \$25 1 semester, 1 credit
Prerequisite: none

This course is designed to provide students with the 21st century technology skills necessary to acquire certification and be competitive in today's rapidly evolving workspace. MS ITA I will help students develop basic skills that will lead to certification as a Microsoft Office Specialist, demonstrating that they are proficient in the Microsoft Office Suite and that they possess the up-to-date skills for college and career

readiness. Becoming a Microsoft Office Specialist helps increase everyday productivity while providing the tools to succeed in a technology-driven world. This course is suited for the student who already has basic computer skills. Simulations and projects promoting teamwork, leadership and workplace skills offer further opportunities for application of knowledge and skills. This course satisfies the online learning experience required for the Alabama High School Diploma.

450031 Microsoft IT Academy II

Fee: \$25 1 semester, 1 credit
Prerequisites: MS IT Academy I; instructor approval

This course is designed to provide students with the 21st century technology skills necessary to acquire certification and be competitive in today's rapidly evolving workplace. MS IT Academy II will help students develop advanced skills that will lead to certification as a Microsoft Office Specialist, demonstrating that they are proficient in the Microsoft Office Suite and that they possess the up-to-date skills for college and career readiness. Becoming a Microsoft Office Specialist helps increase everyday productivity while providing the tools to succeed in a technology-driven world. This course provides students with project-based applications of concepts learned in Microsoft Office IT Academy I. Personal computing and business skills are integrated throughout the course as students use a variety of software applications to produce and prepare documents for publication and learn how to select appropriate software for generating information. A major emphasis is placed on guiding students through real-world experiences to aid in the school-to-career transition with special emphasis placed on Microsoft Office Certification.

410016 Multimedia Design

Fee: \$25 1 semester, 1 credit
Prerequisite: MS IT Academy I & II

This course is designed to provide students with hands-on skills involving graphic design, web publishing, and digital video production. Students use various hardware peripherals and software for completing projects. This course will count as one core credit in the Business Information Technology Career Pathway.

410017 Multimedia Publications

Fee: \$25 1 semester, 1 credit
 Prerequisite: MS IT Academy I & II

This course is designed to provide students with the ability to utilize digital photography and multimedia digital imaging software, to produce interactive media projects, and to develop publication layouts. Students use various hardware peripherals as well as the internet for integrating skills to create a variety of publications. This course will count as one core credit in the Business Information Technology Pathway.

Computer Science		
Grade Pathway	Course #	Course
9 th Grade	450006	Microsoft IT Academy I
	450031	Microsoft IT Academy II
10 th Grade	410016	Multimedia Design
	Must have a "C" or better average in MS IT Academy I and Instructor Approval	
11 th Grade	410017	Multimedia Publications
	Must have a "C" or better average in MS IT Academy II and Instructor Approval	
12 th Grade	520008	Computer Science Principles
	Must have a "C" or better average in Multimedia Design and Instructor Approval	

520008 Computer Science Principles

Fee: \$25 Prerequisite: MS IT Academy I & II; instructor approval; Successful completion of Algebra II

This course is designed to introduce students to the central ideas of computing and computer science. The course content is focused on creativity, abstraction, algorithms, programming, big data, Internet/Networking, and societal impact.

Computer Support Services		
Grade Pathway	Course #	Course
9 th Grade	450006	Microsoft IT Academy I or equivalent
	520005	Information Technology Fundamentals
10 th Grade	430058	Direct Current
	410018	Information Technology Support and Services
11 th Grade	410019	Computer Management Support
	520021	Networking I
12 th Grade	400023	Senior Pathway Project

520005 Information Technology Fundamentals

Fee: \$25 1 semester, 1 credit
 Prerequisite:

(Recommended) Successful completion of Direct Current and MS IT Academy I or equivalent; instructor approval

This course introduces students to the knowledge base and technical skills for information technology careers. Students study the nature of business and demonstrate knowledge of the functions of information systems in business. Emphasis is placed on maintaining a safe working environment and on building interpersonal skills needed for working in the informational technology environment. Students demonstrate appropriate knowledge and behaviors regarding legal responsibilities of information technology professionals and explore a variety of information technology career opportunities and develop a personal career plan to meet career goals and objectives.

410018 Information Technology Support and Service

Fee: \$25 1 semester, 1 credit
 Prerequisite: Information Technology Fundamentals

This course provides students with knowledge and skills regarding the maintenance, upgrading, and configuration of PC hardware, components, and peripherals. Upon successful completion of this course, students are able to maintain, upgrade, and configure PC systems. Students receive both classroom instruction and hands-on laboratory experiences. A strong emphasis is placed on proper safety practices and industry ethics.

410019 Computer Management Support

Fee: \$25 1 semester, 1 credit
 Prerequisite: Information Technology Support and Service

This course provides students with knowledge and skills regarding computer operating systems and application software. Upon successful completion of this course, students are able to install and maintain computer software. Students receive both classroom instruction and hands-on laboratory experiences. A strong emphasis is placed on proper safety practices and industry ethics.

520021 Networking I

Fee: \$25 1 semester, 1 credit

Prerequisite: "C" or better in

Computer Management Support and Instructor approval

This course provides students with knowledge and skills regarding computer basics, the 7-layer OSI model, number system conversions, and Local Area Network (LAN) devices. Upon successful completion of this course, students are able to install, test, and maintain LANs. Students receive both classroom instruction and hands-on laboratory experiences. A strong emphasis is placed on proper safety practices and industry ethics.

Medical Sciences Academy (Emergency Services, Health Sciences & Veterinary Sciences)

EMERGENCY SERVICES		
Grade Pathway	Course #	Course
9 th Grade	530004	Principles of Public Safety**
10 th Grade	530011	Introduction to Fire Science**
11 th Grade	420029	Wildland Firefighter
12 th Grade	530012	Firefighting (FF/160)
	410024	Emergency Services (EMT Basic)

530004 Principles of Public Safety

Fee: \$25 1 semester, 1 credit

Prerequisite: none

This course is designed to introduce students to the competencies related to public service job preparatory programs. Students develop knowledge and skills in fire management services, legal services, and law enforcement services.

530011 Introduction to Fire Science

Fee: \$25 1 semester, 1 credit

Prerequisite: Principles of Public Safety or Instructor Approval

This course is designed to introduce students to the basic principles and procedures of firefighting. Emphasis is placed on safety, fire behavior, communication equipment, fire extinguishers, structural design, personal protective equipment, ropes and knots, search and rescue, ground ladders, ventilation,

fundamentals of a water supply system, fire hose, and water streams.

410024 Emergency Services

530012 Firefighting

Fee: \$107 (includes uniform with exception of boots & insurance) 2 semesters, 2 credits

Prerequisites: 2.5 minimum GPA and "C" or better in Anatomy; teacher recommendation;

**Principles of Public Safety, Introduction of Fire Science or Instructor Approval.

*Medical Physical Required due to strenuous physical demands of the program.

Each of these courses will be taken together as a combination course. This is designed for students in grade 12 to provide students with the certifications and skills necessary to be "career ready" in *Firefighting and Emergency Medical Services*. Students will need to turn 18 within a year of completion in order to finish the certification process. Successful completion of this exam is the first step necessary in order to receive a state license as an EMT. Students will also be able to attend an abbreviated "Rookie School" (5 weeks) to earn a professional certification in firefighting from the Alabama Fire College. Due to the partnership with The Alabama Fire College, students will have access to the latest technology in the Fire Service industry. Students must provide transportation in compliance to TCBE policy. Certification requirements may require students to attend classes as early as 7:30 a.m., as well as fully utilize bonus period instructional time. Physical training is an integral component of the class and certification requirements. Students must obtain medical clearance prior to taking this program option. When not in uniform, school dress code will be strictly enforced.

Health Science Program

The purpose of the Health Science Programs is to introduce students to the healthcare system, assist students to make realistic career decisions, develop students' leadership skills and prepare students for acceptance in a post-secondary healthcare education program and/or employment in healthcare jobs. It is critical that students prepare for careers in health science to meet the increasing and changing demands of various populations and of the rapidly developing biomedical industry.

Students in the health science program must achieve academic goals and meet the expectations of business and industry. The health science program provides the flexibility for meeting the needs of all students. This cluster encompasses integrated academics and technology and includes a variety of course selections with materials relevant to the twenty-first century. The health science program emphasizes the importance of project, service, and work-based learning experiences. Development of leadership enhanced through student participation in Health Occupations Students of America (HOSA). Health Science is competency-based, utilizing learner-centered instruction that provides opportunities for students to learn skills necessary for a career path in health science.

Because of legalities, liabilities, responsibilities of professional healthcare workers, and patient rights, students shall not be assigned to the clinical experience segment of the program until they are considered competent in basic skills in their chosen occupational area as determined by the Health Science instructor. Students participating in clinical experiences will be required to pay an additional fee for liability insurance coverage. Students in advanced level programs are required to purchase an approved uniform.

HEALTH SCIENCES		
Grade Pathway	Course #	Course
10 th Grade	490033	<i>Medical Terminology</i>
11 th Grade	490007	<i>Foundations of Health Science</i>
	490033	<i>Medical Terminology</i>
12 th Grade	490007	<i>Foundations of Health Science</i>
	490033	<i>Medical Terminology</i>
	410024	<i>Emergency Services</i>
	410004	<i>Veterinary Science</i>
	490013	<i>Health Science Internship (1 credit)</i>
	490014aa	<i>Health Science Internship (Nursing Aide Training - CNA) (2 credits)</i>
	490014	<i>Health Science Internship (Therapeutic Services) (2 credits)</i>
	490016	<i>Advanced Health Seminar</i>

490033 Medical Terminology

Fee: \$25 1 semester, 1 credit

Prerequisite: Biology or Honors Biology "C" or higher

This course is designed to develop healthcare specific knowledge for a medical field. The course uses an integrated approach for teaching the language of medicine by incorporating medical terminology with anatomy and physiology and the disease process.

490007 Foundations of Health Science

Fee: \$25 1 semester, 1 credit

Prerequisites: Chemistry or Honors Chemistry; and/or Human Anatomy and Physiology with a minimum "B" average or higher (both courses highly recommended); application and instructor approval required.

This is an entry course for the health science program. It is recommended for any student who plans to pursue a medical career or health-related field of study beyond high school. It introduces students to a wide range of health and medical careers, health care skills, emergency care certification, medical terminology, and current disease control and prevention. Lab and classroom studies focus on applying human anatomy and physiology to patient care skills. A large number of outside the classroom field trips offer job shadowing opportunities to local hospitals and health care agencies which gives students a real world look at health and medical careers today. Transportation will be provided for students that do need it. For those that have transportation, liability insurance is required for off-campus class assignments and clinical visits. This course will substitute for the 250002 Health Education course required for graduation.

490013 Health Science Internship

Fee: \$62 1 semester, 1 credit

Prerequisites: Foundations of Health Science; Application and selection required

This is one-credit internship option that allows seniors to pair this course with other Medical Science Academy options, as needed to meet the Career Technical requirements for completer status.

490014 Health Science Internship (Therapeutic Services)

Fee: \$87 2 semesters, 2 credits
(Fee includes the cost of a uniform)

Prerequisites: *Foundations of Health Science*;
Application and selection required

All Criteria to Advance to Health Science Internship, as stated in the *Foundations of Health Science* curriculum, must be successfully met prior to approval of enrollment to this senior-level program.

This course is designed for students in grade 12 who have completed *Foundations of Health Science* and met the criteria to advance. Students will complete 18 weeks of internship within a local health care facility working with professional mentors in a health care area(s) of their own choosing. All students will complete six weeks of professional orientation and skills training prior to entering their assigned clinical area.

Transportation will be provided for students that need it. For those that have transportation, liability insurance is required for off-campus class assignments and clinical requirements.

490014aa Health Science Internship (Nursing Aide Training)

Fee: \$87 2 semesters, 2 credits
(Fee includes the cost of a uniform)

Prerequisite: *Foundations of Health Science*; Application

This course is designed for students in grade 12 who have completed *Foundations of Health Science* and met the criteria to advance. Students will complete an internship within a local healthcare facility working with professional mentors in a health care area(s) in nursing.

Transportation will be provided for students that need it. For those that have transportation, liability insurance is required for off-campus class assignments and clinical requirements.

490016 Advanced Health Seminar

Fee: \$25 1 semester, 1 credit

Prerequisite: *Health Science Internship*/Instructor Approval

This course provides an individualized learning experience for students who desire an in-depth study in at least one occupational area in the Health Science cluster. Students who successfully complete foundations of Health

Science and Health Science Internship may select one or more health care areas to prepare for specialization in a health career. This senior-level work-based project is the capstone course for the Health Science cluster and can serve to complete concentration in a pathway.

Veterinary Sciences		
Grade Pathway	Course #	Course
11 th or 12 th Grade	410004	Veterinary Sciences

410004 Veterinary Sciences

Fee: \$25 1 semester, 1 credit

Prerequisites: "C" or better in Honors Biology and/or teacher recommendation; grade 11 or 12 and in good standing; Chemistry (Honors) is recommended

This course is designed to prepare students for entry-level employment or for advanced training in the veterinary-assisting industry. Topics include career opportunities, safety, reproduction and genetics, hormones and growth disorders, animal anesthesiology and basic surgery procedures, health and management, business management practices, and applications of technology.

Mechatronics Academy (Electronic Systems and Robotics)

Computer Integrated Electronics and Manufacturing is a system in which individual engineering, production, and marketing and support functions of a manufacturing enterprise are organized into a computer-integrated system. Functional areas such as design, analysis, planning, purchasing, cost accounting, inventory control, and distribution are linked through the computer with factory floor functions such as materials handling and management, providing direct control and monitoring of all process operations.

Computer-integrated manufacturing (CIM) links computer-aided design (CAD), computer-aided manufacturing (CAM), robotics, numerically controlled machine tools (NCMT), automatic storage and retrieval systems (AS/RS), flexible manufacturing systems (FMS), and other computer-based manufacturing technology.

Grade Pathway	Course #	Course
9 th Grade	430004	(REQUIRED PREREQUISITE) Architecture, Construction, and Manufacturing
	430058	Direct Current
10 th Grade	430059	Alternating Current
	430051	Basic Wiring
11 th Grade	540015	Semiconductors
	540021	Digital Electronics
12 th Grade	430056	Electromechanical Controls
	540032	Robotics Application

430004 Architecture, Construction, and Manufacturing

Fee: \$25 1 semester, 1 credit
Prerequisite: none

This course introduces students to core knowledge and skills in the areas of design, preconstruction, construction, maintenance, operations, and installation and repair which are foundational to courses related to careers in the architecture and construction and manufacturing industries.

430058 Direct Current

Fee: \$25 1 semester, 1 credit
Prerequisite: none

This course is designed to provide students with the fundamental knowledge and skills for the electrical & automotive industry. Emphasis is placed on job safety, sources, terminology and symbols, components of a basic circuit, electrical quantities and measurements, characteristics of resistors, Ohm's law in direct current circuits, circuit construction, and troubleshooting. Upon successful completion of this course, students perform basic tasks related to the electrical and automotive industry.

430059 Alternating Current

Fee: \$25 1 semester, 1 credit
Prerequisite: "C" or higher in Direct Current; instructor approval

This course addresses principles and concepts of magnetism, measuring electrical quantities, calculating electrical quantities using Ohm's law in alternating current circuits and reactive currents.

430051 Basic Wiring

Fee: \$25 1 semester, 1 credit
Prerequisite: none

This course provides students with fundamental knowledge and skills in basic wiring. Emphasis is placed on understanding circuitry, performing basic wiring patterns, and using National Electric Code (NEC).

540015 Semiconductors

Fee: \$25 1 semester, 1 credit
Prerequisite: "C" or higher in Direct Current; instructor approval

This course is designed to provide students with instruction on job safety and characteristics and uses of semiconductors, symbols, semiconductor circuits, and analog circuits.

540021 Digital Electronics

Fee: \$25 1 semester, 1 credit
Prerequisite: "C" or higher in Semiconductors; instructor approval

This course introduces students to digital fundamentals and number systems. Emphasis is placed on characteristics of digital circuit signals, logic gates, logic devices, and digital circuits.

430056 Electromechanical Controls

Fee: \$25 1 semester, 1 credit
Prerequisite: "C" or higher in Digital Electronics; instructor approval

This course is designed to provide students with the fundamental knowledge and skills in control systems, input/out devices, fluid power, and controllers.

540032 Robotics Applications

Fee: \$25 1 semester, 1 credit
Prerequisite: "C" or higher in Electromechanical Controls; instructor approval

This course places emphasis on the applications of a variety of robotic systems. Students will design and construct a robotic system with peripheral devices.

Public Safety & Law Academy

Grade Pathway	Course #	Course
9 th Grade	530004	<i>Principles of Public Safety</i>
10 th Grade	530011	<i>Introduction to Fire Science</i>
11 th Grade	410025	<i>Forensic and Criminal Investigation</i>
	420029	<i>Wildland Firefighting and Controlled Fires</i>
12 th Grade	530012	<i>Fire Fighter</i>
	410024	<i>Emergency Services</i>
	<i>Students may take the Emergency Medical Technician exam at 18 years old</i>	

530004 Principles of Public Safety

Fee: \$25 1 semester, 1 credit

Prerequisite: none

This course is designed to introduce students to the competencies related to public service job preparatory programs. Students develop knowledge and skills in fire management services, legal services, and law enforcement services.

530011 Introduction to Fire Science

Fee: \$25 1 semester, 1 credit

Prerequisite: Principles of Public Safety or Instructor Approval

This course is designed to introduce students to the basic principles and procedures of firefighting. Emphasis is placed on safety, fire behavior, communication equipment, fire extinguishers, structural design, personal protective equipment, ropes and knots, search and rescue, ground ladders, ventilation, fundamentals of a water supply system, fire hose, and water streams.

410025 Forensic and Criminal Investigation

Fee: \$25 1 semester, 1 credit

Prerequisite: "C" or better average in Chemistry, Algebra I, and Introduction to Fire Science

This course focuses on the history of forensic science, criminal investigation, forensic serology and DNA, forensic studies in anthropology, toxicology, fingerprinting, firearms, physics, and document examination.

420029 Wildland Firefighting and Controlled Fires

Fee: \$110 (includes uniform; boots purchased separately by student) 1 semester, 1 credit

Prerequisite: 2.5 GPA; "C" or better in Biology and/or Physical Science; Medical Physical required due to strenuous physical demands of the program

This physically demanding course is designed to give students a working knowledge of wildland firefighting and the use of controlled fires on forest lands. Emphasis is placed on firefighting terminology, topography, fuel types, external influences, personal protective equipment, deployment procedures, firefighting tools and equipment, suppression tactics, and controlled burning.

410024 Emergency Services

530012 Firefighting

Fee: \$107 (includes uniform with exception of boots & insurance) 2 semesters, 2 credits

Prerequisites: 2.5 minimum GPA and "C" or better in Anatomy; teacher recommendation;

****Principles of Public Safety, Introduction of Fire Science or Instructor Approval.**

*Medical Physical Required due to strenuous physical demands of the program.

Each of these courses will be taken together as a combination course. This is designed for students in grade 12 to provide students with the certifications and skills necessary to be "career ready" in **Firefighting and Emergency Medical Services**. Students will need to turn 18 within a year of completion in order to finish the certification process. Successful completion of this exam is the first step necessary in order to receive a state license as an EMT. Students will also be able to attend an abbreviated "Rookie School" (5 weeks) to earn a professional certification in firefighting from the Alabama Fire College. Due to the partnership with The Alabama Fire College, students will have access to the latest technology in the Fire Service industry. Students must provide transportation in compliance to TCBE policy. Certification requirements may require students to attend classes as early as 7:30 a.m., as well as fully utilize bonus period instructional time. Physical training is an integral component of the class and certification requirements. Students must obtain medical clearance prior to taking this

program option. When not in uniform, school dress code will be strictly enforced.

Transportation Academy

Automotive Technology emphasizes critical thinking skills and requires significant mathematical computation and application, as well as a conceptual understanding of physics.

The Maintenance & Light Repair (MLR) program of study includes four courses, A-D. With the successful completion of the MLR courses, students may initiate the Automotive Service Technology (AST) program, also encompassing four courses, A-D. Completion of the AST qualifies students for National Automotive Technicians Education Foundation (NATEF)-MLR and NATEF-AST Student Certification, preparing students for the National Institute of Automotive Service Excellence (ASE) Student Credential.

Students taking automotive technology courses are required to both attend and participate in class/lab daily. Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom and career development. Students successfully completing the automotive technology courses with a "B" or better average may earn articulated credit hours with post-secondary educational institutions including, but not limited to, the Alabama Center for Automotive Excellence (ACAE), Lincoln College of Technology, Universal Technical Institute, WyoTech, The School of Automotive Machinists, Ohio Technical College, etc. Courses successfully completed in automotive technology will be considered toward required hours in the *Mechatronics* and *Automotive Technology* programs sponsored by Mercedes-Benz with classes held at Shelton State Community College. Application and evaluations are required for entrance in the *Mechatronics* and *Automotive Technology* programs.

Grade Pathway	Course #	Course
9 th Grade	570072	<i>Maintenance & Light Repair B– (Steering/Suspension & Brakes)</i>
	570073	<i>Maintenance & Light Repair C– (Brakes & Electrical/Electronics)</i>
10 th Grade	570074	<i>Maintenance & Light Repair D– Electrical/Electronics, Engine Performance, & Heating/Air Conditioning</i>
	570071	<i>Maintenance & Light Repair A</i>

		<i>Engine Repair, Automatic Transmission, & Manual Drive Train and Axles</i>
11 th Grade	570075	<i>Automotive Service Technology A</i>
	570076	<i>Automotive Service Technology B</i>
12 th Grade	570077	<i>Automotive Service Technology C</i>
	570078	<i>Automotive Service Technology D</i>
	400023	<i>Senior Career Pathway Project</i>

570072 Maintenance & Light Repair B Suspension/Steering & Brakes

Fee: \$25 1 semester 1 credit
Fall Semester Only
Prerequisite: none

This course provides students with foundational knowledge and skills regarding Safety, Suspension & /Steering, and Brake Systems. Strong emphasis is placed on system and component operations. Upon successful completion of the course, students are able to diagnose and repair safety, suspension, steering and brake related systems.

570073 Maintenance & Light Repair C Electrical, Electronics & Brakes

Fee: \$25 1 semester, 1 credit
Prerequisite: Maintenance & Light Repair B

This course provides students with foundational knowledge and skills regarding Safety, Electrical/Electronic, and Brake Systems. Strong emphasis is placed on system and component operation. Upon successful completion of the course, students are able to diagnose and safely repair, electrical, electronics, and brake related systems.

570074 Maintenance & Light Repair D Electrical/Electronics, Engine Performance, and Heating/Air Conditioning

Fee: \$25 1 semester, 1 credit
Prerequisite: Maintenance & Light Repair C

This course is designed to provide students with foundational knowledge and skills relative to safety, engine performance, electrical/electronic systems, and heating and air conditioning systems. Strong emphasis is placed on system and component operation. Upon successful completion of the course, students are able to diagnose and safely repair engine, electrical, electronic, heating and air conditioning systems.

**570071 Maintenance & Light Repair A
Engine Repair, Automatic
Transmission, & Manual Drive Trains**

Fee: \$25 1 semester, 1 credit
Prerequisite: Maintenance & Light Repair D

This course is designed to provide students with foundational knowledge and skills relative to safety, engine repair, automatic transmissions, and manual drive trains.

400023 Senior Career Pathway Project

Fee: \$25 1 semester, 1 credit
Prerequisite: Successful completion of
4 or more advanced Automotive Technology
Academy courses; Instructor's Approval

This course is a capstone course designed for students completing four or more courses in the Transportation Academy. This course allows students to utilize their secondary coursework through an experience that showcases their learning. It provides an opportunity for a student to choose this area of interest and engage in an in-depth exploration while demonstrating problem-solving decision-making and independent-learning skills. The Senior Career Pathway Project contributes to an education plan of challenging courses and practical experiences that prepares students for post-secondary education studies and training.

**ELECTIVE COURSES
OFFERED AT HOME
SCHOOLS**

Career Technical

400016 Workforce Essentials

Fee: \$25 2 semesters, 1 credit
Prerequisite: none

This course provides students with higher-level academic and occupational skills that are transferable across jobs and occupational areas. Emphasis is placed on academic foundations for careers; applied technology; career development and employment; entrepreneurship and business economics; social and ethical

responsibility, leadership and teamwork; safety and health; and technical knowledge and skills. Students build on prior knowledge, strengths, interests, and needs that enhance preparation for future employment and continuing education and training. This course will count as one elective credit in the Business Information Technology Pathway.

400025 Career Preparedness

Fee: none 2 semesters, 1 credit
(at home school sites)
Prerequisite: none

This course is required for graduation and is taught in grades 9 – 12 (should be taken in grade 9). Through this course, students will gain content knowledge and skills to prepare them for college and career readiness. It incorporates three components: career development and academic planning, computer skill application, and financial literacy knowledge. This course is also designed to meet the required 20-hour online experience. Upcoming sophomores, juniors, and seniors who have not taken a course to fulfill both their 20-hour online experience requirement and one-half credit computer applications requirement will take this course in place of Business Technology Applications (BTA). BTA will no longer be offered at the high school sites due to the new diploma option and the new state course, Career Preparedness. A student may, however, fulfill both the 20-hour online experience and one-half credit computer applications through another course (ACCESS course, etc.).

**400026 Career Preparedness Part A: College
and Career Planning/Computer
Applications**

Fee: none 1 semester, ½ credit

This course is required for graduation and is taught in grades 9 – 12. This required course is for incoming ninth graders in 2013-2014. Through this course, students will gain content knowledge and skills to prepare them for college and career readiness. The required 20-hour online experience can be met by successfully completing both Career Preparedness A and Career Preparedness B.

**400027 Career Preparedness Part B:
Financial Literacy**

Fee: none 1 semester, ½ credit
Prerequisite: Career Preparedness A

This course is required for graduation and is taught in grades 9 – 12. This required course is for all incoming ninth graders in 2013-2014. Through this course, students will gain content knowledge and skills to prepare them for college and career readiness. The required 20-hour online experience can be met by successfully completing both Career Preparedness A and Career Preparedness B.

400031 Cooperative Education Seminar

Fee: none 2 semesters, 1 credit
(at home school sites)
Prerequisite: application and selection

This course is a required component of the Cooperative Education work-based experience. Students enrolled in Cooperative Education programs are required to participate in the seminar one block each week. Students must work 270 clock hours in a work-based learning environment to earn one credit. This course will count as one elective credit for any Career/Technical Pathway.

Note: Beginning in 2013-2014, this course will be offered and supervised at all 3 high schools (as previously offered) and TCTA.

Business Marketing

450007 Business Essentials

Fee: \$25 2 semesters, 1 credit
Prerequisite: Career Preparedness

This course provides students with an understanding of how academic skills in mathematics, economics, and written and oral communications are integral components of success in commerce and information technology careers. Students examine current events to determine impact on business and industry and legal and ethical behavior, acquire knowledge of safe and secure environmental controls to enhance productivity, determine how resources are managed to achieve company goals, and identify employability and personal skills needed to obtain a career and be successful in the workplace. As students learn about different types of business ownership, they interpret industry laws and regulations to

ensure compliance, identify principles of business management, and analyze business practices to determine ethical and social responsibilities.

550021 Sales and Promotion Planning

Fee: \$25 2 semesters, 1 credit
Prerequisite: Business Essentials

This course provides the tools necessary for the development, implementation, and management of promotional programs. The focus of this course is on utilizing promotional knowledge and skills for communicating information to achieve a desired outcome. Students develop skill related to advertising, publicity, special events, visual merchandising, displays, promotional campaigns, and advertisements to aid in promotional planning. They learn to manage the sales function to determine client needs and wants and to respond through planned, personalized communication.

550011 Marketing Principles

Fee: \$25 2 semesters, 1 credit
Prerequisite: Sales and Promotion Planning

This course is designed to provide students with an overview of in-depth marketing concepts. Students develop a foundational knowledge of marketing and its functions, including marketing information management, pricing, product and service management, entrepreneurship, and promotion and selling. Students examine the need for sales and marketing strategies. Students practice customer relationship skills, ethics, technology applications, and communicating in the workplace.

400017 Entrepreneurship

Fee: \$25 2 semesters, 1 credit
Prerequisite: Marketing Principles

This course provides students with skills needed to effectively organize, develop, create, and manage a business. This course includes business management and entrepreneurship, communication and interpersonal skills, economics, and professional development foundations. Instructional strategies may include the development of a business plan, a school-based enterprise, computer and technology applications, real and simulated occupational experiences or projects related to business ownership.

Family and Consumer Sciences

Family and Consumer Sciences (FACS) includes a wide-array of academic disciplines associated with individuals, families, communities and the environment in which they live. *Family, Career and Community Leaders of America (FCCLA)* is the student organization for FACS, and is an integral part of the curriculum that enhances leadership development skills and provides opportunities for community service.

510004 Family and Consumer Sciences

Fee: \$25 1 semester, 1 credit

Prerequisite: none

Recommended for ninth and tenth grades

This course provides students with core knowledge and skills in the areas of marriage and family, parenting and care giving, consumer sciences, apparel, housing, food and nutrition, and technology. A school-based laboratory is required for this course.

510012 Food & Nutrition

Fee: \$25 1 semester, ½ credit

Prerequisite: Family & Consumer Sciences

This lab-based course introduces students in grades 10-12 to national and international food choices, preparation techniques, nutrients, menu planning, nutritional guidelines, promoting healthy lifestyles, food presentation, food storage, food safety, dining etiquette, and career options in the food and nutrition industry.

410012 Family Wellness

Fee: \$25 1 semester, ½ credit

Prerequisite: grades 10-12

This course is designed for students in grades 10 through 12. Family Wellness covers health issues that impact individuals, families, and communities. Course content provides opportunities for students to explore family health through the stages of the life span. Topics include family health goals, health promotion, health risks, conflict resolution, communication skills needed in healthy relationships, mental health, grief, genetics, disease prevention, chronic illness, family nutrition, substance abuse, home safety, emergency care, first aid, consumerism, advocacy, technology, and careers related to individual and family health and wellness.

Students may elect to substitute this course for one ½ unit of Health as required for graduation.

510024 Parenting

Fee: \$25 1 semester, ½ credit

Prerequisite: Family & Consumer Sciences

This course assists students in grades 10 through 12 in the acquisition of knowledge and skills associated with positive parent/child relationships. The course allows students to focus on practical problems related to parenting roles and responsibilities. Course content provides opportunities for students to explore preparation for parenthood; signs and changes in pregnancy; prenatal development, labor and delivery, stages of child development; birth defects and children with exceptionalities; meeting physical, health, and safety needs of children and adolescents; positive parent/child relations; guidance and discipline of children and adolescents; sources of parenting information, support, and assistance; technology impacting parenting; and career opportunities working with parents and children.

510042 Fashion

Fee: \$25 1 semester, ½ credit

Prerequisite: Family & Consumer Sciences

This course is designed to introduce students to selection and care of clothing and accessories for individuals and families throughout the life span. A school-based laboratory is required for this course.

Military

480041 JROTC Leadership Education and Training (LET 1) (Central High School)

480051 Marine Corps JROTC Leadership Education (LE-I) (Paul W. Bryant High School)

Fee: none 2 semesters, 1 credit

Prerequisite: Senior Army Instructor (SAI) approval

NOTE: JROTC students may take only one LET level per academic school year.

The first year of JROTC (LET 1) includes (1) The Spirit of American Citizenship and JROTC introduction, (2) Techniques of Communication, (3) Leadership, (4) Cadet Challenge (Physical Fitness), (5) Leadership Lab, (6) First Aid and Health, (7) Map Reading, (8) Overview of

Citizenship through American Military History, (9) Your American Citizenship, and (10) Rifle Marksmanship.

480042 JROTC Leadership Education and Training (LET 2) (Central High School)

480052 JROTC Leadership Education and Training Marine Corps (LE-II) (Paul W. Bryant High School)

480043 JROTC Leadership Education and Training (LET 3) (Central High School)

480053 JROTC Leadership Education and Training Marine Corps Education (LE-III) (Paul W. Bryant High School)

480044 JROTC Leadership Education and Training (LET 4) (Central High School)

480054 Marine Corps JROTC Leadership Education (LE-IV) (Paul W. Bryant High School)

Fee: none 2 semesters, 1 credit
Prerequisite: previous JROTC LET course

NOTE: JROTC students may take only one LET level per academic school year.

Subsequent JROTC courses continue learning and application of concepts and skills begun in JROTC LET 1. Students earn leadership positions based on their prior experiences.

802200aa Precisions Drill Team

Fee: none 2 semesters, 1 credit
Prerequisites: Enrolled in JROTC; taking LET 1, 2, 3 or 4, and SAI approval
(Offered at Central High School and Paul Bryant High School)

Precision Drill Team will teach JROTC students basic army drill and ceremony in accordance with army Field Manual 22-5 as well as precise fancy drill movements. Students will learn teamwork through the practice of team drill movements. The Precision Drill Team will perform during the year in local holiday events, parades, school demonstrations, and statewide competitions.

Fine Arts

280001 Arts Survey

Fee: none 1 semester, ½ credit
Prerequisite: none

This course comprehensively introduces students to the four arts' disciplines – dance, music, theatre, and visual arts and helps them develop an awareness of the contributions artists have made to society across the years.

280025 International Baccalaureate (IB) Music SL

Fee: none 2 semesters, 1 credit
Prerequisite: Admission to the IB Programme (Offered at Central High School)

This course is designed for music students with varied backgrounds in music performance, either solo and/or group performers. The aim of the IB music program is to give students the opportunity to explore and enjoy the diversity of music throughout the world by enabling them to creatively develop their knowledge, abilities and understanding through performance and composition. Students will be expected to demonstrate their understanding of music by performing solo and in a group, by using appropriate musical language and terminology in analyzing musical works from many and varied cultures and periods, and by exploring their own composition writing. External assessments of listening and musical investigation will constitute fifty percent of the grade, and internal assessment will be done by the teacher in the areas of performance and composition to fulfill the remaining fifty percent of the grade. All IB students must take this course in conjunction with one of the school's largest ensembles (band, orchestra, or choir). If a student is not a member of one of the ensembles, he/she needs to check with the IB Music teacher to make sure he/she has a method to fulfill the performance requirement of this IB Music course.

280031 Instrumental Level I/Beginning Band

Fee: \$25 2 semesters, 1 credit

Prerequisite: none

This course is for students with little or no prior band experience. Beginning Band is a skill course in which students learn basic techniques on a band instrument. The instrument is to be purchased by the parents.

280032 Instrumental Level I/Marching Band

Fee: none 1 semester (fall only), ½ credit

Prerequisite: Band director's approval

This course will focus on the skills needed to perform in a marching band. This will include preparing for halftime shows, learning stand music, and preparing for parades. After-school rehearsals are required and performances are mandatory. Upon successful completion of the course, students may receive a fine arts credit.

280033 Instrumental Level II/Concert Band

Fee: \$25 2 semesters, 1 credit

Prerequisite: Audition and selection

Concert Band is an intermediate performing concert band through which students strengthen their performing skills. The concert band provides an opportunity for continuous development of basic musical skills through tone production, intonation, sight reading, and rhythms.

280035 Instrumental Level III/Symphonic Band

Fee \$25 2 semesters, 1 credit

Prerequisite: Audition and selection

Symphonic Band is the advanced concert band. Symphonic Band is designed to meet the needs of those students who have demonstrated a high degree of instrumental proficiency. The purpose of this musical organization is for cultural enrichment and musical discipline.

280036 Instrumental Level III/Jazz Ensemble

Fee: \$25 1 semester, ½ credit

Prerequisite: Audition and selection

Participation in the jazz ensemble is designed to provide students with experience in performing music in the popular jazz and rock idioms in all representative styles. There are opportunities for solo playing, improvisation, and performance of creative student arrangements.

280037 Instrumental Level IV/Orchestra

Fee: \$25 2 semesters, 1 credit

Prerequisite: Audition and selection

Orchestra is a class formed to meet the needs of those students who have demonstrated a high degree of instrumental proficiency. This course not only accommodates wind and percussion instruments, but also stringed instruments such as violin, viola, cello, and double bass. The purpose of this musical organization is for cultural enrichment and musical discipline. This course may be taken for four years. Orchestra fulfills the graduation requirement for one credit of fine arts for the advanced academic or standard diploma. Students participating in orchestra have REQUIRED orchestra apparel, purchased by the student; assistance with apparel purchase is available based on a financial need basis.

280051 Vocal Level I/Musical Theatre

Fee: \$25 2 semesters, 1 credit

Prerequisite: none

Musical Theatre is a performance elective that provides students with opportunities to perform a musical production during the school year. Singing and acting skills are developed through auditions, rehearsals and performance. Some after-school rehearsals and extracurricular performances are required. Students may take musical theatre in subsequent terms for additional elective credits

280052 Vocal Level I/Mixed Chorus

Fee: \$25 1 semester, ½ credit

Prerequisite: none

This course is designed for the beginning choral student to develop musical skills in sight-reading, vocal technique, and to explore various styles of music from classical to contemporary music. Students may take this course in subsequent terms for additional elective credits.

280053 Vocal Level II/Treble Choir

Fee: \$25 2 semesters, 1 credit

Prerequisite: Audition and selection

Concert Treble Choir is an intermediate level female vocal ensemble designed for an SSAA voicing of singers. This course is designed to develop and strengthen the skills of those students who have students' knowledge of music fundamental and vocal production.

Singers will participate in district and state assessments, solo/ensemble competitions, All-state festivals and community performances. Students are required to purchase a uniform for performances.

280054 Vocal Level II/Men's Chorus

Fee: \$25 1 semester, ½ credit

Prerequisite: Audition and selection

Men's Concert Choir is an intermediate level TTBB vocal ensemble designed for male singers. This course is designed to develop and strengthen students' knowledge of music fundamentals and vocal production. These singers will participate in district and state assessments, solo/ensemble competitions, All-state festivals, and community performances. Students are required to purchase a uniform for performances.

280055 Vocal Level III/Concert Choir

Fee: \$25 2 semesters, 1 credit

Prerequisite: Audition and selection

Concert Choir is an intermediate mixed choir for SATB singers. This course is designed to strengthen the students who have demonstrated basic knowledge of music fundamentals and vocal tone production. These singers will compete in district and state festivals, All-State as well as perform for many community functions. Students are required to purchase a uniform for performances.

280056 Vocal Level III/Gospel Choir

Fee \$25 1 semester, ½ credit

Prerequisite: Audition and selection

Gospel Choir is an intermediate level mixed ensemble. Repertoire will be devoted to learning about the history and development of gospel music including traditional spirituals, modern and southern gospel music and folk music. Students will sing alone and with others to strengthen and develop their vocal ability in ensemble and solo performance. These singers will participate in solo/ensemble competitions and community performances. Students are required to purchase a uniform for performances.

280057 Vocal Level IV/Show Choir

Fee: \$25 2 semesters, 1 credit

Prerequisite: Audition and selection

Show Choir is an advanced ensemble dedicated singers who have exceptional abilities in vocal music. This course emphasizes a combination of singing, dancing, and performing skills. This group will perform a wide variety of music from sacred to secular and classical to today's popular styles. These singers will compete in district and state festivals, All-state as well as perform for many community functions. Students are required to purchase a uniform for performances.

280071 Theatre Level I/Introduction to Drama

Fee: \$25 2 semesters, 1 credit

Prerequisite: none

This course is designed for students with an interest in the dramatic arts. Students will work in all areas of theatre arts, including, but not limited to performance skills such as oral reading, improvisation, and character work, as well as theatre crafts such as masks, make-up, costumes, scenic work, and design skills.

280075 Musical Theatre

Fee: \$25 2 semesters, 1 credit

Prerequisite: Audition and selection

This course is performance oriented and incorporates the study of musical theatre history, styles, performance, and technical production; while also focusing on acting; directing; movement and mime; design; scriptwriting; singing; criticism; and aesthetics.

280076 Theatre Production/Level II

Fee: \$25 2 semesters, 1 credit

Prerequisite: Introduction to Drama

Theatre Production is a performance based course that gives students the opportunity to experience the production process by assisting in the production of shows from a wide range of genres and styles. Students will act and/or serve on production crews for at least two shows each term. The types of shows may include children's theatre, radio theatre, Shakespearean theatre, reader's theatre, Oriental theatre, and musical theatre. This course may be taken more than once.

280077 Acting

Fee: \$25 2 semesters, 1 credit

Prerequisite: Audition/teacher recommendation/"C" or better in Intro to Theatre

Theatre performance focuses on the development of acting skills. Students will prepare and perform monologues, scenes, and plays for class and competition. Students will also be required to attend, read, and analyze plays. Critical reading skills and higher order thinking skills will be developed as a result of intense actor training. Students will be required to rehearse and perform outside of the regular class time.

280083 International Baccalaureate (IB) Film

Fee: \$25 2 semesters, 1 credit

Prerequisite: Admission to the IB Programme and/or TCTA pending waiver approval from IB Programme (Offered at Central High School)

This film course encourages students to develop the skills necessary to achieve creative and critical independence in their knowledge, experience, and enjoyment of film. Through the IB film course, students will develop an appreciation and understanding of the art of film making, the ability to plan stories and ideas for their own film productions, film production skills, critical evaluation of their own and others film productions and an awareness of international film-making. Assessment in IB Film consists of an internal evaluation of a completed film project with associated documentation and a rationale, script and list of sources for a sort documentary production on film theory and/or history and an external evaluation of an oral presentation of an extract from a prescribed film.

280090 Graphic Arts/Art and Design

Fee: \$25 2 semesters, 1 credit

Prerequisites: Art 2

This course provides students with the opportunity to develop aesthetic, imaginative, and creative abilities. Students work toward an art display and/or an art journal, which exhibits extensive research of history, culture, style, media, techniques, composition, and the elements and principles of design.

280093 Art 1

Fee: \$25 2 semesters, 1 credit

Prerequisite: none

This course will explore the fundamental concepts and approaches to drawing, painting, and design. Areas of study will include drawing with pencil, pen and ink, tempera painting, calligraphy, block printing, and ceramics.

280094 Art 2

Fee: \$25 2 semesters, 1 credit

Prerequisite: Art 1 or teacher recommendation

This course will include an in-depth study of drawing in a variety of media, multicolor block printing, pottery and ceramic sculpture, and watercolor and acrylic painting with two and three-dimensional design.

280095 Art 3

Fee: \$25 2 semesters, 1 credit

Prerequisites: Art 2 or teacher recommendation

This course is designed for students with exceptional interest and/or ability in art. This class will include an in-depth study of drawing in a variety of media, multicolor block printing, pottery, sculpture, and painting in a variety of media with two-dimensional and three-dimensional design. There will be written assignments as well as outside-of-class drawing.

280096 Art 4

Fee: \$25 2 semesters, 1 credit

Prerequisite: Art 3 or teacher recommendation

This course is for students with exceptional interest and/or ability in art. Most of the class work is done on an individual basis. Each student does an in-depth study in one area: ceramics, design, drawing, or painting. There will be written assignments as well as outside-of-class drawing.

280102 Advanced Placement (AP) Art

Fee: \$25 2 semesters, 1 credit
Prerequisite: teacher recommendation

Advanced Placement (AP) Art is a course designed for juniors or seniors who are seriously interested in the practice of art. It offers the student the opportunity to pursue an intensive study of art according to guidelines established by the College Board. These guidelines attempt to establish an environment for the study of art that would closely approximate that of a freshman-level art course. Two avenues of study are open to the student: a concentration in drawing or a more general exploration of a variety of areas in art. At the end of the year the student will submit a portfolio of his/her work to an evaluation committee to be rated for possible college credit or college advanced placement. Students will receive 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

280098 3-D Art

Fee: \$25 2 semesters, 1 credit
Prerequisite: none

3-D Art, also known as Ceramics I, is a beginning level course of study in which students will be introduced to the basic elements and principles of three-dimensional designs and be introduced to the creation of ceramic objects, and the use of clay to produce art objects. Students will explore the use of clay to create ceramic containers, tiles, thrown pottery, and clay sculptures. Students will explore glaze formulation using non-toxic raw materials.

**280105 International Baccalaureate (IB)
Visual Arts SL**

Fee: \$25 2 semesters, 1 credit
Prerequisite: Admission to the IB Programme
(Offered at Central High School)

This course is designed for students who wish to concentrate on studio performance in visual arts (Option A) or for students who wish to concentrate on contextual, visual and critical investigation in visual arts (Option B). In Option A, students will produce investigation workbooks to support, inform, develop, and refine studio work through sustained contextual, visual and critical investigation. In Option B, students will fully explore an integrated range of ideas in their investigation workbooks within a contextual, visual, and critical framework, and produce

studio work based on their visual and written investigation.

280107 Visual Arts Elective

Fee: \$25 1 semester, ½ credit
Prerequisite: 3-D Art

This visual arts elective, also known as Ceramics II, is designed for students who are motivated to develop their skills previously experienced in Ceramics I. Students are given an opportunity to design and complete ceramic assignments not explored in an entry level course. Some students may choose to work on the wheel for part of the semester. Work is evaluated on an individual basis.

Foreign Language

270023 French 1

Fee: none 2 semesters, 1 credit
Prerequisite: none

In French 1, students study the fundamentals of the French language, francophone countries, people, and their cultures. Students are introduced to the basic grammatical structures and to the vocabulary relevant to real-life situations while developing proficiency in listening, speaking, reading, and writing in French. Students will also explore the geography and customs of francophone countries.

270024 French 2

Fee: none 2 semesters, 1 credit
Prerequisite: French 1

French 2 is a continuation of studies begun in French 1. It introduces intermediate grammatical structures, a broadened vocabulary, and expanded cultural concepts.

270025 French 3

Fee: none 2 semesters, 1 credit
Prerequisite: French 2

French 3 offers the serious student a review and reinforcement of the skills and materials learned in French 1 and 2 as well as the introduction of advanced grammatical concepts and more complex vocabulary. Readings from French history and literature may be included.

270026 French 4

Fee: none 2 semesters, 1 credit
Prerequisite: French 3

French 4 places emphasis on conversation and reading comprehension. The finer points of grammar are stressed. French 4 is based upon the assumption that the student has mastered all basic grammar concepts. The course offers the student strengthening and reinforcement in the speaking-listening skills and in reading comprehension.

270033 French 5

Fee: none 2 semesters, 1 credit
Prerequisite: French 4

French 5 offers further development and refinement of previously learned skills. Students will read a variety of texts, which will provide a basis for discussion of cultural themes.

270027 Advanced Placement (AP) French

Fee: \$25 2 semesters, 1 credit
Prerequisite: French 4 and teacher recommendation

Advanced Placement (AP) French will involve the reading and analysis of a variety of texts including French literature (short stories, plays, and poems) and informative articles (journalistic and textbook style). Through this intensive reading, students will have the opportunity to review grammar and communication skills. All of the language skills of listening, speaking, reading, and writing will be employed. Students will receive 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

270043 German 1

Fee: none 2 semesters, 1 credit
Prerequisite: none

German 1 is an introduction to the basics of the German language. Students will develop competence in the four skills (listening, reading, speaking, and writing) so they will be able to communicate successfully in German. Students will be introduced to contemporary life and culture in the German-speaking countries.

270044 German 2

Fee: none 2 semesters, 1 credit
Prerequisite: German 1

German 2 expands the communicative skills already acquired. Students will be able to talk about a variety of everyday occurrences and events. Students will learn to interact with others about various aspects of life: using various means of transportation, exchanging currency, and shopping in a variety of stores and markets. Students will increase cultural understanding by writing letters, describing German houses and apartments, major events, and festivals in small towns and large cities in Germany. Students will expand reading skills through specially chosen readings. These selections are shortened and simplified texts adapted from the works of well-known German authors.

270045 German 3

Fee: none 2 semesters, 1 credit
Prerequisite: German 2

German 3 builds on the skills developed in German 1 and 2. Extensive practice in conversation and grammar review is included. German 3 students will be introduced to German history, art, and literature. Students will read intermediate-level German novels and view German films. Students will expand their knowledge of German culture through reading and discussion. Class will be conducted almost exclusively in German with the expectation that the student will develop fluency in the language.

270046 German 4

Fee: none 2 semesters, 1 credit
Prerequisite: German 3

German 4 emphasizes conversation and reading comprehension. The finer points of grammar can be mastered as they occur within the reading material. German 4 is based upon the assumption that the student has mastered all basic grammar concepts. The course offers the student strengthening and reinforcement in the speaking-listening skills and in reading comprehension (not translation) skills.

270153 Spanish 1

Fee: none 2 semesters, 1 credit
Prerequisite: none

In Spanish 1, students are introduced to the basic grammatical structures and to the vocabulary and expressions relevant to real-life situations while developing proficiency in listening, reading, speaking, and writing. Throughout the course, explorations of the geography of Spanish-speaking countries, the people, and the customs serve to broaden students' views of the world and their places in it.

270154 Spanish 2

Fee: none 2 semesters, 1 credit
Prerequisite: Spanish 1

Spanish 2 offers a further study of the Spanish language, its structure, and vocabulary. It continues to acquaint the student with the culture and way of life of Hispanic people.

270155 Spanish 3

Fee: none 2 semesters, 1 credit
Prerequisite: Spanish 2

Spanish 3 concludes the study of the basic concepts of Spanish grammar and offers an in-depth study of the finer grammatical structures of the language. Stress is placed on using the language and improving conversational skills. Spanish literature is introduced.

270156 Spanish 4

Fee: none 2 semesters, 1 credit
Prerequisite: Spanish 3

Spanish 4 emphasizes conversation and reading comprehension. The finer points of grammar can be mastered as they occur within the reading material. Spanish 4 is based upon the assumption that the student has mastered all basic grammar concepts. The course offers the student strengthening and reinforcement in the speaking-listening skills and in reading comprehension (not translation) skills.

270160 Spanish 4, IB (International Baccalaureate)

Fee: none 2 semesters, 1 credit
Prerequisite: Spanish 3
(Offered at Central High School)

IB Spanish 4 emphasizes conversation and reading comprehension. The finer points of grammar can be mastered as they occur within the reading material. Spanish 4 is based upon the assumption that the student has mastered all basic grammar concepts. The course offers the student strengthening and reinforcement in the speaking-listening skills and in reading comprehension (not translation) skills. To earn IB credit, the student must be admitted to the IB Programme and must take the IB examination.

270164 Spanish 5

Fee: none 2 semesters, 1 credit
Prerequisite: Spanish 4

Spanish 5 offers further development and refinement of previously learned skills. Students will read a variety of literary texts, which will provide a basis for discussion of cultural themes.

270161 Spanish 5, IB (International Baccalaureate)

Fee: none 2 semesters, 1 credit
Prerequisite: Spanish 4
(Offered at Central High School)

IB Spanish 5 offers further development and refinement of previously learned skills. Students will read a variety of literary texts, which will provide a basis for discussion of cultural themes. To earn IB credit, the student must be admitted to the IB Programme and must take the IB examination.

270157 Advanced Placement (AP) Spanish

Fee: \$25 2 semesters, 1 credit
Prerequisite: Spanish 4 and teacher recommendation

AP Spanish involves the reading and analysis of a variety of texts including Spanish literature (short stories, plays, and poems) and informative articles (journalistic and textbook style). Through this intensive reading, students will have the opportunity to review grammar and communication skills. All of the language skills of listening, speaking, reading, and writing will be employed. Students will receive 1.0 extra quality point for successful completion of the

course and the completion of the AP examination.

Other General Electives

802104 Study Hall

Fee: none 1 or 2 semesters, no credit
Prerequisite: none

This course will offer students with time for supervised independent study. A variety of options for students can be provided,

802200 Enrichment

Fee: none 1 semester, no credit
Prerequisite: none

This course consists of any enhanced learning activities such as ACT Prep to prepare for the English, Math, Science, Reading and Writing sections of the ACT. Other enrichment activities may include robotics, extension of labs, Scholars Bowl, bonus period activities, and others.

600304 Transition Services 9

600305 Transition Services 10

600306 Transition Services 11

600307 Transition Services 12

Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

These courses have previously been identified as the Introduction to the World of Work 1 and 2 in the Tuscaloosa City School system. These elective courses are designed to prepare students who are in need of career readiness skills. This course is available only to students who are working towards a graduation certificate and the IEPs require the course.

600301 Transition Services I

700041 Transition Services II

Fee: none 2 semesters, 1 credit
Prerequisite: IEP team decision

These courses have previously been identified as Workforce Essentials in the Tuscaloosa City School system. These courses are designed to assist in the development of career and independent living skills through community-based instruction. This course is available only

to students with IEPs requiring the course and for students who need to complete Co-op requirements for the former Alabama Occupational Diploma (AOD).

802204 Content Textual Reading

Fee: None 2 semesters, no credit
Prerequisite: Score of 2 or below on ARMT+,
Explore or Plan scores, counselor
recommendation, or other scores as deemed
appropriate in 4-year plan
Note: Students in grades 9, 10, 11, or 12 may
be enrolled in this course.

This elective course is designed to help students increase reading skills with an emphasis on reading comprehension, across all subjects, above and beyond instruction provided in required courses.

802105 Orientation

Fee: none, 1 semester, no credit
Prerequisite: none

This course is designed to introduce students to school/classroom policies, procedures, and culture.

802109 Hobbies

Fee: based on course, 1 semester, no credit
Prerequisite: none

This course is designed to provide students with opportunities to explore a new interest in a supervised activity. Activities such as reading, creative writing, sport, computer games, chess, music, dance, foreign languages, and art that provide an extra intellectual challenge are all options for this course. This course can be used as a separate elective course, or it can be scheduled during the bonus/flex period.

802110 Club/Activity

Fee: based on course, 1 semester, no credit
Prerequisite: none

This provides school-sponsored sessions, e.g., National Honor Society, SGA, Beta Club, Academic Team, Book Club, or others. This course can be used as a separate elective course, or it can be scheduled during the bonus/flex period.

802106 Student Aide

Fee: none 1 semester, no credit

Prerequisites: Application required

This course is designed for supervised student assistance such as teacher aide, office aide, guidance office aide, library aide, lab assistant, front office aide, etc.

802202 School Publications**802202aa Yearbook****802202bb Newspaper****802202cc Newsletter**

Fee: \$25 2 semesters, 1 credit

Prerequisite: Application required

In this course, students will assist in production/maintenance of the following school publications: yearbook, newspaper or E-papers, website maintenance/updates, newsletter, or other noted school publications.

When requesting School Publications on the course selection form, you must specifically select the area of school publication from the above options.

Physical Education Athletics

240002 Lifelong Individualized Fitness, LIFE

Fee: none 2 semesters, 1 credit

Prerequisites: none

Lifelong Individualized Fitness Education (LIFE) is the required foundation course for all high school students. The goal of the LIFE course is for students to make physical activity a part of their lives beyond high school. The focus of the required high school physical education course is health-enhancing activity. LIFE provides a blueprint for a lifetime of health living. Students learn to apply various aspects of fitness and to assess their own fitness levels. Students are required to develop and maintain an individual level of fitness that forms the foundation for a healthy future. This is a required course for graduation.

240003 Physical Education Elective

Fee: Based on course 2 semesters, 1 credit

Prerequisite: LIFE PE

This course is designed for those students who have completed the LIFE physical education and wish to continue to take a physical education class. Team activities offered in this class include football, basketball, soccer, tennis, softball, and other team oriented activities. Students will be offered opportunities to compete in intramural activities in the various sports. All athletic courses are provided through this elective option. Placement in an athletic sport is made only after try-outs and selection procedures are completed. Approval from the appropriate coach is required for registration in each sport.

When registering for this course, you must specifically select one of the following options on your course selection form:

1. Swimming
2. Wrestling
3. Varsity Cheerleading
4. JV Cheerleading
5. Football
6. JV Football
7. Volleyball
8. Junior Varsity Volleyball
9. Girls Track and Field
10. Boys Track and Field
11. Girls Varsity Basketball
12. Girls JV Basketball
13. Boys Varsity Basketball
14. Boys JV Basketball
15. Varsity Fast pitch Softball
16. JV Fast pitch Softball
17. Varsity Baseball
18. JV Baseball
19. Girls Varsity Soccer
20. Girls JV Soccer
21. Boys Varsity Soccer
22. Boys Junior Varsity Soccer
23. Girls Golf
24. Boys Golf
25. Girls Tennis
26. Boys Tennis
27. Strength Training Football
28. Other

250002 Health

Fee: none 1 semester, ½ credit

Prerequisite: none

Health is a required course for graduation. Students will study material enabling them to recognize the importance, nature, and extent of the following: personal health and fitness, mental health, nutrition, substance abuse, safety and emergency care, family and social health, and community health. Realizing that knowledge by itself does not change health behaviors, this health education curriculum provides students with opportunities to gain health knowledge, to practice effective health skills and behaviors, and to develop attitudes that promote healthful living. **This course is a required course for graduation.**

OTHER ACADEMIC INFORMATION

Dual Enrollment/Dual Credit (DE/DC):

The Alabama State Board of Education has authorized the establishment of dual enrollment programs between public colleges and universities and local boards of education. Eligible students may enroll in postsecondary institutions in order to dually earn credits for a high school diploma and/or a postsecondary degree. The following options may be offered in dual enrollment: 1) Students may earn college credit (dual enrollment) or 2) Students may earn both high school and college credits for the same course (dual enrollment/dual credit). Dual enrollment/dual credit (DE/DC) allows eligible high school students to enroll in college courses and receive both high school and college credit. Students will receive ½ Carnegie Unit for successful completion of a semester college course. Ten quarter/six semester credit hours at the postsecondary level shall equal one credit at the high school level in the related subject. For example, a senior may take English 101 and 102 to receive 6 hours of college credit and concurrently receive 1 high school Carnegie Unit for English. DE/DC courses are taught at the college level and graded at the college level. Students participating in DE/DC courses are required to follow college procedures and complete required college forms and applications, along with the Tuscaloosa City Schools policies and Student Handbook. High

school guidance counselors have dual enrollment application forms and can assist with the enrollment process or answer any questions you may have. For additional questions about DE/DC, contact the Assistant Superintendent of Curriculum and Instruction office at 759-3510. A course passed as dual enrollment/dual credit counts as college credit and high school credit. Six college credit hours equal one credit at the high school level in the same or a related subject. Weighted credit is ~~not~~ awarded for dual enrollment courses (see Grade Point Average Scale chart). Partial credit may not be earned through dual enrollment.

Students will receive 1.0 extra quality point for successful completion of each DE/DC course.

To qualify for DE/DC, a student must meet the following criteria:

1. Passed all parts of the AHGSE or equivalent.
2. Meet entrance requirements established by institutions of postsecondary education.
3. Maintain a "B" average in high school classes.
4. Have local school administration, counselor, and parent/guardian permission.
5. Be enrolled in grades 11 or 12, or have an exception granted by the participating postsecondary institution upon the recommendation of the student's administration and superintendent or his designee and in accordance with Alabama Administrative Code 290-8-9-17 regarding gifted and talented students.
6. Be responsible for all travel to an off-campus site. Parents/guardians will be required to give permission for student to check out. Student will be required to follow regular check out procedures each day.
7. Be responsible for all costs associated with student transportation, including insurance, etc. to the off-campus site.
8. Understand that the college or school system assumes no responsibility or liability for students during the times they are commuting to the DE/DC site.

Typical Course Offerings
DUAL CREDIT ONLINE COURSE OPTIONS

Course #	Course Title	UA Core Area
ANT100 ANT102	Intro to Anthropology Intro to Cultural Anthropology	SB
ARH 252 ARH 253	Survey of Art History I (Prehistoric to Medieval) Survey of Art History II (Renaissance to Modern)	FA
BSC 108 BSC 109	Biology for Non-Majors (cellular) Biology for Non-Majors (human)	N
CHI 101 CHI 102	Chinese I Chinese II	FL
CS 102	Microcomputer Applications I	Prereq
CS 202 CS 205	Information Highway Website Design (must take 202)	CS/FL
CS 285	Microcomputer Applications II	CS/FL
EN 101 EN 102	Freshman Composition I Freshman Composition II	FC
EN 209 EN 210	American Literature I American literature II	HU/L
HD 101	Human Development	SB
HY 101 HY 102	Western Civilization to 1648 Western Civilization since 1648	HI
HY 203 HY 204	American Civilization to 1865 American Civilization since 1865	FL
JA 101 JA 102	Japanese I Japanese II	FL
JN 200	Introduction to Journalism	HU
MATH 110*	Finite Mathematics	MA
MATH 112*	Precalculus Algebra	MA
MATH 113*	Precalculus Trigonometry	MA
MATH 121*	Business Calculus	MA
PY 101	Introduction to Psychology	SB

CONTACT INFORMATION
www.uaearlycollege.ua.edu
 Email to earlycollege@ua.edu or
 1-877-823-8759

TYPICAL UA EARLY COLLEGE COURSES
 Courses are offered Online and/or On-Campus

Humanities HU – 3 hours	
JN 200	Intro to Journalism
PHL 204	Medical Ethics
AMS 205	Working Live
CIP 200	Intro to Global Studies
REL 100	Intro to World Religions
PHL 100/200	Intro to Philosophy
COM 122	Critical Decision Making
COM 123	Public Speaking
Social & Behavioral Science SB –6-9 hours	
ANT 100	Intro to Anthropology
ANT 102	Cultural Anthropology
HD 101	Human Development
EG 110-111	Economics
GY 110	Prin. Human Geography
PY 101	Psychology
SOC 101	Sociology
PSC 101/103	American Politics

Nat. Science N – 8 hours	
BSC 108/109	Biology Non-Majors
AY 101	Astronomy (on campus w/labs)
BSC 114/116	Biology for Majors
CH 101/102	Chemistry
CH 104/105	Chemistry
GEO 101	Dynamic Earth

Fine Arts FA – 3 hours	
ARH 252	Survey of Art I
ARH 253	Survey of Art II
FA 200	Intro to Fine Arts
TH 114	Intro to the Theatre
NEW 212	Creativity
MUS 121	Intro to Listening

Math MA – 3+ hours	
MATH 101	Finite Math
MATH 112	Precalculus Algebra
MATH 113	Precalculus Trigonometry
MATH 115	Precal Algebra & Trig
MATH 121	Calculus for Business
(Placement test required)	

Composition FC – 6 hours	
EN 101	Freshman Composition I
EN 102	Freshman Composition II

Literature L – 3-6 hours (see below)	
EN 101/102	Is prerequisite to Literature
EN 209	American Literature I
EN 210	American Literature II

History HY – 3-6 hours	
HY 101	Western Civilization to 1648
HY 102	Western Civilization s/ 1648
HY 203	American Civilization to 1865
HY 204	American Civilization s/1865
UA requires either a series of 2 History courses and 1 Literature OR series of 2 Literature courses and 1 History. Requirements may be different at other institutions	

Computer Science C – 6 hours (see below)	
CS 102	Microcomputer Apps.* (prerequisite for all CS courses)
CS 202	Information Highway (prerequisite for all CS 205)
CS 205	Website Design
CS 285	Microcomputer Apps II

Language FL – 8 hours	
ARB 101/102	Arabic
CHI 101/102	Chinese
FR 101/102	French
GN 101/102	German
JA 101/102	Japanese
SP 101/102	Spanish
UA requires either 2 terms (6 credit hours) of Computer Science beyond CS 102 OR 2 terms (8 credit hours) of Foreign Language. Requirements may be different at other institutions	

Elective Courses	
HES 275	Volunteerism
NHM 101	Nutrition
CJ 101	Criminal Justice
HHE 270	Personal Health
*Specific offerings vary by term. Call 1-877-823-8759 for specific list	

Advanced Placement The Advanced Placement Program (AP) is an academic program of college-level courses and exams for high school students and provides students with the opportunity to earn college credit or placement, while still in high school. The curriculum of an AP course is challenging and goes into greater depth with the academic material than regular courses. AP courses require students to use analytical thinking, reading, writing, and problem solving skills. AP courses are taught using college level materials and teaching strategies. All students enrolled in Advanced Placement courses are required to

take the AP Exam or complete an art portfolio for AP art only. Students should meet the following criteria to enroll in AP courses:

1. Be advised during the 4-year planning process with district and local school personnel based on test scores, career interest inventory, college and career plans, and other areas as determined by district personnel.
2. Complete all prerequisite courses.
3. Should have an above-average GPA with “B’s” or better in core academic subjects in the area of the AP subject.
4. Should have EXPLORE and/or PLAN scores to indicate student is prepared for rigor required.
5. Should be highly-motivated and have good study habits.
6. Should have consent of parent/guardian (signature on the 4 year plan).
7. Must take AP exam at the end of the year.

More information about the AP Program is available at AP Central, the College Board’s online home for AP professionals www.apcentral.collegeboard.com/apstudents.

Students will receive 1.0 extra quality point for successful completion of the course and the completion of the AP examination.

The AP courses scheduled at each high school depend upon the demand. If a student is interested in an AP course that is not offered on site, the student or parent should contact the local school counselor to discuss other options.

Honors Courses

Honors courses are offered at each high school and include rigorous content, along with Pre AP materials and methodology. These courses also provide students with the academic skills and habits of mind needed to be successful in challenging Advanced Placement courses.

International Baccalaureate Programme (IB)

The IB Programme supports the development of effective and rewarding learning communities through service and professional networks focused on best practices in education. The objectives of the IB Programme are to provide pupils with a balanced education, to facilitate geographic and cultural mobility, and to promote international understanding through a shared academic experience. Students who participate in the full diploma program pursue a specific, intensive, balanced liberal arts course of study

which includes a critical thinking class, a minimum of 150 hours of participation in extracurricular activities and community services and a research paper. Students also must pass rigorous examinations in seven curricula areas.

Although students may be admitted to the IB Programme at the beginning of the eleventh grade, the sequence of foreign language courses needed to earn the IB diploma requires participation in foreign language courses in grades 9 and 10.

Grade Point Average (GPA) Scale

Students electing to participate in rigorous academic courses such as Honors, Advanced Placement, Dual Enrollment, and IB Programmes are given additional weight. The weighted Grade Point Average (GPA) will be recorded on the students' report card, high school official transcript, and included in the students' overall GPA calculation. Secondary credit grades shall be awarded according to the following scales:

Regular	Honors	AP,IB, DE/DC
A = 4.0	A = 4.5	A = 5.0
B = 3.0	B = 3.5	B = 4.0
C = 2.0	C = 2.5	C = 3.0
D = 1.0	D = 1.5	D = 2.0
F = 0.0	F = 0.0	F = 0.0

Distance Education Courses (ACCESS)

The Tuscaloosa City Schools offers distance learning courses to all qualifying students in grades 9-12. Courses under this program along with the state's Alabama Connecting Classrooms, Educators and Students Statewide (ACCESS Distance Learning) provide the opportunity for students with difficult schedules to take courses that would otherwise be unavailable. All courses currently approved for the Secondary Course Catalog may be optionally offered to qualifying students pending the availability of trained online facilitators and the appropriate distance education equipment. Class size regulations are the same as for courses not taught through distance learning.

Correspondence/Online/Independent Study

Students in grades 9-12 may be approved to take correspondence or independent study and/or online courses for credit(s) offered through institutions recognized by the State Department of Education or from institutions

accredited by a national accrediting agency recognized by the U.S. Office of Education. The school principal must grant prior written approval for each correspondence/independent/online study course. No more than one-fourth of the total units required for graduation may be taken by correspondence/online/independent study.

Credit Recovery

Credit Recovery is a course-specific, standards-based extended learning opportunity for students who have been unsuccessful in mastering content or skills required to receive course credit or earn promotion. Credit Recovery study is based on deficiencies rather than a repeat of the entire course. Students who have not achieved a baseline score of 40 or above (on a 100-point scale) must repeat the entire course. Past credit recovery has been completed on PLATO software; however beginning in 2013, students will use the *A+ Anywhere Learning* system to regain credits.

The *A+ Anywhere Learning* system courseware incorporates a standards-based and self-paced approach to learning. The *A+ Anywhere Learning* program is a scientific research-based learning instructional program. It consists of core curriculum content supported by an extensive instructional management system. The content addresses reading, writing, mathematics, science, and social sciences for first through twelfth grades containing over 6,000 lessons with over 100,000 exercises, and representing over 6,700 hours of instruction. The content is focused on essential skills using proven teaching methods, human voice, and engaging graphic support. The emphasis is on clear, focused instruction with extensive, frequent feedback containing review and re-teaching when necessary. The presentation is always concise and direct with carefully planned sequences of lessons to assure mastery of content. These design principles are based on scientific research and are the basis for the instructional program.

Student Eligibility Admission and Removal

- Student must be in high school.
- Student must have consent from parent or guardian.
- Student must be recommended by principal/counselor/Tuscaloosa City Schools' curriculum team representative or local school advisory committee representative.

- d. Student must be working toward one of the approved diploma options.
- e. Student must have earned a minimum numerical score of 40 in the course enrolled.

Grades

- a. Under the Credit Recovery Program adopted by the Tuscaloosa City Schools, a maximum grade of "C" (70) will be earned after successful completion of the Credit Recovery course(s).
- b. A minimum grade of 80% on all course work completed in the program, as well as the computer generated end-of-course assessment on skill specific goals, is required for credit recovery.
- c. The final credit recovery grade, as well as the original failing grade, will be included when computing the students' overall GPA. The original failing grade must ~~also~~ remain on the transcript.

Credits

Credit Recovery courses in which students have completed will be included in calculating the total credits for the school year.

PARTICIPATION IN EXTRACURRICULAR ACTIVITIES "Academics First"

The Tuscaloosa City Board of Education recognizes the value of athletics and other extracurricular activities as they relate to the total education of students. The Tuscaloosa City Board of Education also recognizes and supports high academic standards and the necessity of developing a framework to annually assess each athletic and extracurricular student's progress toward graduating from high school on schedule with his/her class.

For purposes of definition, athletic events are defined as those recognized and sanctioned by the Alabama High School Athletic Association. Extracurricular activities are defined as those in which a student represents his/her school.

The Tuscaloosa City Board of Education prescribes the following regulations for eligibility by students in this school system to participate in athletics and/or extracurricular activities:

1. Each student entering grades 10-12 must, for the immediate preceding school year, have a total numerical average of 70, (including any four (4) core courses) and earn the appropriate number of credits in each of six (6) subjects that total six (6) Carnegie units of credit.
2. Physical education may count as only one (1) unit per year.
3. Eligibility shall be determined on the first day of the school year and shall remain in effect for one (1) complete school year. Students deemed ineligible at the beginning of the school year by virtue of having failed to meet the requirements outlined in parts 1-2 above, may regain their eligibility at the end of the first semester by meeting the requirements for eligibility in the two most recently completed semester, including summer school. Eligibility restoration must be determined no later than five (5) school days after the beginning of the succeeding semester. An ineligible student may not become eligible after the fifth school day of each semester. Bona fide transfers will comply according to rules of the Alabama High School Athletic Association for sports and policies developed by this Board of Education as it pertains to extracurricular activities.
4. Each eligible student must meet the definition of a regular student as defined by the Alabama High School Athletic Association.
5. All students entering grades 8 and 9 must pass five (5) subjects with a total composite numerical average of 70 for those five (5) subjects during their preceding two terms of attendance. (Core courses are not required.)

NCAA ELIGIBILITY INFORMATION

Sources:

http://fs.ncaa.org/Docs/eligibility_center/Quick_Reference_Sheet.pdf

http://fs.ncaa.org/Docs/eligibilitycenter/Important_New_Rules/New_IE_Rules.pdf

The initial-eligibility standards for NCAA Division I college-bound student-athletes are changing. College-bound student-athletes first entering a Division I college or university on or after August 1, 2016, will need to meet new academic rules in order to receive athletics aid (scholarship), practice or compete during their first year.

Key Terms

1. **Full Qualifier:** A college-bound student-athlete may receive athletics aid (scholarship), practice and compete in the first year of enrollment at the Division I college or university.
2. **Academic Redshirt:** A college-bound student-athlete may receive athletics aid (scholarship) in the first year of enrollment and may practice in the first regular academic term (semester or quarter) but may NOT compete in the first year of enrollment. After the first term is complete, the college-bound student-athlete must be academically successful at his/her college or university to continue to practice for the rest of the year.
3. **Nonqualifier:** A college-bound student-athlete cannot receive athletics aid (scholarship), cannot practice and cannot compete in the first year of enrollment.

New Requirements

1. **Full Qualifier:**
 - a. Complete 16 core courses (same distribution as in the past)
 - b. Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
 - c. Seven of the 10 core courses must be English, math or science.

- d. Have a minimum core-course GPA of 2.300; Note: Grades earned in the 10 required courses required before the senior year are "locked in" for purposes of GPA calculation.
- e. A repeat of one of the "locked in" courses will not be used to improve the GPA if taken after the seventh semester begins.
- f. Meet the competition sliding scale requirement of GPA and ACT/SAT score (this is a new scale with increased GPA/test score requirements); and
- g. Graduate from high school.

2. **Academic Redshirt** must:

- a. Complete 16 core courses (same distribution as in the past)
- b. Have a minimum core-course GPA of 2.000;
- c. Meet the academic redshirt sliding scale requirement of GPA and ACT/SAT score; and
- d. Graduate from high school.

3. **Nonqualifier** is a college-bound student-athlete who fails to meet the standards for a qualifier or for an academic redshirt.

Examples:

Q: A college-bound student-athlete completes 15 core courses with a 2.500 core-course GPA and an 820 SAT score (critical reading and math). What is the college-bound student-athlete's NCAA initial-eligibility status?

A: The college-bound student-athlete is a nonqualifier because only 15 core courses were completed, not the required 16 core courses.

Q: A college-bound student-athlete completes 16 core courses in the required framework with a 2.500 core-course GPA and a 68 sum ACT. What is the college-bound student-athlete's initial-eligibility status?

A: The college-bound student-athlete is an academic redshirt. Under the new competition scale, a 68 sum ACT score requires a 2.950 core-course GPA.

Q: A college-bound student-athlete completes nine core courses prior to the seventh semester of high school. What is the college-bound student-athlete's initial-eligibility status?

A: The college-bound student-athlete cannot be certified as a qualifier because only nine of the 10 required courses were completed before the seventh semester. He/she would be permitted to practice and receive aid (scholarship), provided he/she presents 16 core courses and meets the necessary core-course GPA and test-score requirement at the time of graduation.

Core Courses

- **NCAA Division I requires 16 core courses. NCAA Division II currently requires 14 core courses.** Division II will require 16 core courses for students enrolling on or after August 1, 2013. See the charts below.
- **NCAA Division I will require 10 core courses** to be completed **prior to the seventh semester** (seven of the 10 must be a combination of English, math or natural or physical science that meet the distribution requirements below). These 10 courses become "locked in" at the seventh semester and cannot be retaken for grade improvement.
- Beginning August 1, 2016, it will be possible for a Division I college-bound student-athlete to still receive athletics aid and the ability to practice with the team if he or she fails to meet the 10 course requirement, but would not be able to compete.

Test Scores

- **Division I** uses a sliding scale to match test scores and core grade-point averages (GPA). The sliding scale for those requirements is shown at the end of this section.
- **Division II** requires a minimum SAT score of 820 or an ACT sum score of 68.
- The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a **sum** of the following four sections: English, mathematics, reading and science.

- When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores that appear on transcripts will not be used.

Grade-Point Average

- **Be sure** to look at your high school's List of NCAA Courses on the NCAA Eligibility Center's website (www.eligibilitycenter.org). Only courses that appear on your school's List of NCAA Courses will be used in the calculation of the core GPA. Use the list as a guide.
- **Division I** students enrolling full time **before August 1, 2016**, should use Sliding Scale A to determine eligibility to receive athletics aid, practice and competition during the first year.
- **Division I** GPA required to receive athletics aid and practice **on or after August 1, 2016**, is 2.000 (corresponding test-score requirements are listed on Sliding Scale B at the end of this section).
- **Division I** GPA required to be eligible for competition **on or after August 1, 2016**, is 2.300 (corresponding test-score requirements are listed on Sliding Scale B at the end of this section).
- **The Division II** core GPA requirement is a minimum of 2.000.
- Remember, the NCAA GPA is calculated using NCAA core courses only.

DIVISION I
16 Core Courses

- 4 years of English.
- 3 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 1 year of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).

DIVISION II
16 Core Courses
(2013 and After)

- 3 years of English.
- 2 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 3 years of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).

Sliding Scale A		
<i>Use for Division I prior to August 1, 2016</i>		
NCAA DIVISION I SLIDING SCALE		
Core GPA	SAT	ACT
Verbal and Math ONLY		
3.550 & above	400	37
3.525	410	38
3.500	420	39
3.475	430	40
3.450	440	41
3.425	450	41
3.400	460	42
3.375	470	42
3.350	480	43
3.325	490	44
3.300	500	44
3.275	510	45
3.250	520	46
3.225	530	46
3.200	540	47
3.175	550	47
3.150	560	48
3.125	570	49
3.100	580	49
3.075	590	50
3.050	600	50
3.025	610	51
3.000	620	52
2.975	630	52
2.950	640	53
2.925	650	53
2.900	660	54
2.875	670	55
2.850	680	56
2.825	690	56
2.800	700	57
2.775	710	58
2.750	720	59
2.725	730	59
2.700	730	60
2.675	740-750	61
2.650	760	62
2.625	770	63
2.600	780	64
2.575	790	65
2.550	800	66
2.525	810	67
2.500	820	68
2.475	830	69
2.450	840-850	70
2.425	860	70
2.400	860	71
2.375	870	72
2.350	880	73
2.325	890	74
2.300	900	75
2.275	910	76
2.250	920	77
2.225	930	78
2.200	940	79
2.175	950	80
2.150	960	80
2.125	960	81
2.100	970	82
2.075	980	83
2.050	990	84
2.025	1000	85
2.000	1010	86

Sliding Scale B			
<i>Use for Division I beginning August 1, 2016</i>			
NCAA DIVISION I SLIDING SCALE			
GPA	GPA	SAT	ACT
for Aid and Practice	for Competition		Sum
3.550	4.000	400	37
3.525	3.975	410	38
3.500	3.950	420	39
3.475	3.925	430	40
3.450	3.900	440	41
3.425	3.875	450	41
3.400	3.850	460	42
3.375	3.825	470	42
3.350	3.800	480	43
3.325	3.775	490	44
3.300	3.750	500	44
3.275	3.725	510	45
3.250	3.700	520	46
3.225	3.675	530	46
3.200	3.650	540	47
3.175	3.625	550	47
3.150	3.600	560	48
3.125	3.575	570	49
3.100	3.550	580	49
3.075	3.525	590	50
3.050	3.500	600	50
3.025	3.475	610	51
3.000	3.450	620	52
2.975	3.425	630	52
2.950	3.400	640	53
2.925	3.375	650	53
2.900	3.350	660	54
2.875	3.325	670	55
2.850	3.300	680	56
2.825	3.275	690	56
2.800	3.250	700	57
2.775	3.225	710	58
2.750	3.200	720	59
2.725	3.175	730	60
2.700	3.150	740	61
2.675	3.125	750	61
2.650	3.100	760	62
2.625	3.075	770	63
2.600	3.050	780	64
2.575	3.025	790	65
2.550	3.000	800	66
2.525	2.975	810	67
2.500	2.950	820	68
2.475	2.925	830	69
2.450	2.900	840	70
2.425	2.875	850	70
2.400	2.850	860	71
2.375	2.825	870	72
2.350	2.800	880	73
2.325	2.775	890	74
2.300	2.750	900	75
2.275	2.725	910	76
2.250	2.700	920	77
2.225	2.675	930	78
2.200	2.650	940	79
2.175	2.625	950	80
2.150	2.600	960	81
2.125	2.575	970	82
2.100	2.550	980	83
2.075	2.525	990	84
2.050	2.500	1000	85
2.025	2.475	1010	86
2.000	2.450	1020	86
	2.425	1030	87
	2.400	1040	88
	2.375	1050	89
	2.350	1060	90
	2.325	1070	91
	2.300	1080	93

For more information, visit the NCAA Eligibility Center website at www.eligibilitycenter.org.

